PI NUMBER: rizontal Hole ılti Unit	073 26605 Oil & Gas	o	OIL & GAS CO P.C OKLAHOMA	NSERVAT	00 73152-2000	Approval Date Expiration Dat	
			PER	RMIT TO D	RILL		
WELL LOCATION:	Sec: 30 Twp: 17N F		County: KINGFISHE	D			
		NW FEET FROM QUA			WEST		
SPOT LOCATION:	NE NE NW	SECTION LINES:		IN FROM			
			290		1083		
Lease Name:	CHANNEL		Well No: 1709	3H-30X	We	Il will be 290 feet from nea	arest unit or lease boundary.
Operator Name:	NEWFIELD EXPLORATION	MID-CON INC	Τι	elephone: 28	12105100; 9188781	OTC/OCC Number	: 20944 0
4 WATER	D EXPLORATION MID				LESLIE EARL 5692 E 720 RE	GLAZIER AND ONA GA	Y GLAZIER
THE WOO	ODLANDS,	TX 77380-276	54		LOYAL	OK	73756
1	Name MISSISSIPPIAN (LESS CHEST WOODFORD 659118 647819 694802	950	8	6 7 8 9 11 5: 694803 694252	Name	Increased Density Order	sp th s: 691369 691370
Pending CD Numb						Special Orders:	
Total Depth: 1	9641 Ground Eleva	ation: 1252	Surface Casi	ng: 1500		Depth to base of Treatable W	ater-Bearing FM: 220
Under Federal	Jurisdiction: No		Fresh Water Supp	ly Well Drilled:	No	Surface Wate	er used to Drill: No
PIT 1 INFORMA	TION			Ap	proved Method for dispos	al of Drilling Fluids:	
Type of Pit Syste	m: CLOSED Closed System	Means Steel Pits					
	tem: WATER BASED			D	One time land applicatio	n (REQUIRES PERMIT)	PERMIT NO: 19-3653
Chlorides Max: 8	000 Average: 5000			E.	Haul to Commercial pit fa	acility: Sec. 31 Twn. 12N Rng. 8V	/ Cnty. 17 Order No: 587498
Is depth to top of	ground water greater than 10ft I	below base of pit? Y		H	SEE MEMO		
	nunicipal water well? N						
Wellhead Protect							
	ited in a Hydrologically Sensitive	e Area.					
Category of Pit:							
	ed for Category: C						
Pit Location is							
Pit Location Forn	nation: CHICKASHA						

PIT 2 INFORMATION Type of Pit System: CLOSED Closed System Means Steel Pits Type of Mud System: OIL BASED Chlorides Max: 300000 Average: 200000 Is depth to top of ground water greater than 10ft below base of pit? Y Within 1 mile of municipal water well? N Wellhead Protection Area? N Pit is not located in a Hydrologically Sensitive Area. Category of Pit: C Liner not required for Category: C

Pit Location is NON HSA
Pit Location Formation: CHICKASHA

HORIZONTAL HOLE 1

HORIZONTAL HOLE I	
Sec 31 Twp 17N Rge 9W Cour	ty KINGFISHER
Spot Location of End Point: SE SW SE	E SW
Feet From: SOUTH 1/4 Section Line:	85
Feet From: WEST 1/4 Section Line:	1714
Depth of Deviation: 8407	
Radius of Turn: 596	
Direction: 177	
Total Length: 10297	
Measured Total Depth: 19641	
True Vertical Depth: 9501	
End Point Location from Lease,	
Unit, or Property Line: 85	
Notes:	
Category	Description
DEEP SURFACE CASING	7/24/2019 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING
EXCEPTION TO RULE - 694252	7/25/2019 - G56 - (I.O.) 30 & 31-17N-9W X165:10-3-28(C)(2)(B) MSNLC MAY BE CLOSER THAN 600' TO CHANNEL 1H-30X, FREDA 2-30, EILEEN 1-30, WHITNEY 1-30, ERMA 1-31, RENNER 31-1, CHANNEL 1-31, RENNER 2-31 AND/OR PROPOSED WELLS NEWFIELD EXPLOR. MID-CONTINENT INC. 4/8/2019
HYDRAULIC FRACTURING	7/24/2019 - G71 - OCC 165:10-3-10 REQUIRES:
	1) PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE;
	2) WITH NOTICE ALSO GIVEN 48 HOURS IN ADVANCE OF HYDRAULIC FRACTURING ALL WELLS TO BOTH THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES, USING THE "FRAC NOTICE FORM" FOUND AT THE FOLLOWING LINK: OCCEWEB.COM/OG/OGFORMS.HTML; AND,
	3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION THE HYDRAULIC FRACTURING OPERATIONS, USING THE FOLLOWING LINK: FRACFOCUS.ORG
INCREASED DENSITY - 691369	7/25/2019 - G56 - 30-17N-9W X659118 MSNLC 6 WELLS NEWFIELD EXPLOR. MID-CONTINENT INC. 2/13/2019

073 26605 CHANNEL 1709 3H-30X

Category	Description
INCREASED DENSITY - 691370	7/25/2019 - G56 - 31-17N-9W X647819 MSNLC 6 WELLS NEWFIELD EXPLOR. MID-CONTINENT INC. 2/13/2019
LOCATION EXCEPTION - 694803	7/25/2019 - G56 - (I.O.) 30 & 31-17N-9W X659118 MSNLC, WDFD 30-17N-9W X647819 MSNLC, WDFD 31-17N-9W COMPL INT (30-17N-9W) NCT 0' FSL, NCT 165' FNL, NCT 1320' FWL COMPL INT (31-17N-9W) NCT 0' FNL, NCT 165' FSL, NCT 1320' FWL NEWFIELD EXPLOR. MID- CONTINENT INC. 4/17/2019
МЕМО	7/24/2019 - G71 - PIT 1 & 2 - CLOSED SYSTEM = STEEL PITS PER OPERATOR REQUEST, WBM/CUTTINGS & OBM CUTTINGS CAPTURED IN STEEL HALF PITS, WBM & WBM CUTTINGS WILL BE SOIL FARMED, OBM CUTTINGS TRANSFERRED TO R360 587498 (31-12N-8W), CANADIAN CO, PIT 2 - OBM TO VENDOR
SPACING - 647819	7/25/2019 - G56 - (640)(HOR) 31-17N-9W EST OTHER EXT 639140/640131/644146 MSNLC EXT 639140/640131 WDFD COMPL INT (MSNLC) NLT 660' FB COMPL INT (WDFD) NLT 165' FNL/FSL, NLT 330' FEL/FWL (COEXIST WITH SP # 96050 MNNG, MSSSD)
SPACING - 659118	7/25/2019 - G56 - (640)(HOR) 30-17N-9W EST OTHER EXT 643256/645603/645331 MSNLC, WDFD COMPL INT (MSNLC) NCT 660' FB COMPL INT (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL (COEXIST WITH SP # 89104 MNNG, MSSSD, # 518552 WDFD)
SPACING - 694802	7/25/2019 - G56 - (I.O.) 30 & 31-17N-9W ESTABLISH MULTIUNIT HORIZONTAL WELL X659118 MSNLC, WDFD 30-17N-9W X647819 MSNLC, WDFD 31-17N-9W (WDFD IS AN ADJACENT COMMON SOURCE OF SUPPLY TO MSNLC) 50% 30-17N-9W 50% 31-17N-9W NEWFIELD EXPLOR. MID-CONTINENT INC. 4/17/2019

073-26605

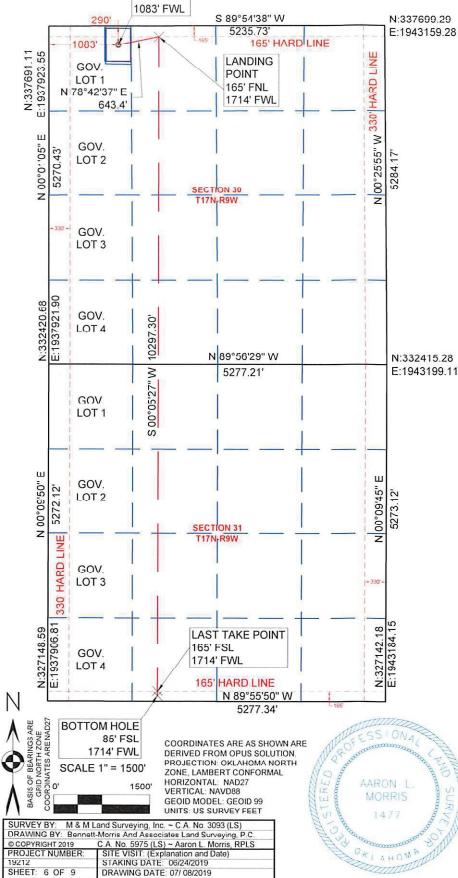
PERMIT PLAT

Company Name: NEWFIELD EXPLORATION MID-CONTINENT INC. Lease Name: CHANNEL 1709 3H-30X

M & M Land Surveying, Inc. Phone (580) 226-0446 520 E Street N.W. Ardmore, OK 73401 SURFACE LOCATION 290' FNL

Section 30 Township 17 N Range 9 W , I.B.M, County of Kingfisher, State of Oklahoma Flevation Good Location? Original Location: 290'FNL - 1083'FWL 1252' GROUND YES

Distance & Direction From Nearest Town: 13.3 miles Northeast of Watonga.



		LANDING POINT DATUM: NAD27		
	1: NAD27			
LAT:	35° 55' 36.25"N	LAT:		
	98° 12' 21.62"W		98° 12' 13.95"W	
	35.926735°N		35.927084°N	
	98.206005°W		98.203874°W	
Y (N):	337402.92		337528.81	
X (E):	1939006.44	X (E):	1939637.39	
DATUM	1: NAD83	DATUM: NAD83		
LAT:	35° 55' 36.39"N	LAT:	35° 55' 37.65"N	
LONG:	98° 12' 22.85''W	LONG:	98° 12' 15.18''W	
LAT:	35.926775°N	LAT:	35.927124°N	
LONG:	98.206348°W	LONG:	98.204218°W	
Y (N):	337426.52	Y (N):	337552.41	
X (E):	1907406.27	X (E):	1908037.22	
LAST 1	AKE POINT	BOTTC	M HOLE	
	AKE POINT 1: NAD27		M HOLE 1: NAD27	
DATUM		DATUN LAT:	1: NAD27 35° 53' 55.66"N	
DATUN LAT:	1: NAD27	DATUN LAT:	1: NAD27	
DATUN LAT: LONG:	1: NAD27 35° 53' 56.46"N	DATUN LAT: LONG:	1: NAD27 35° 53' 55.66"N	
DATUN LAT: LONG: LAT:	1: <u>NAD27</u> 35° 53' 56.46"N 98° 12' 13.89"W	DATUN LAT: LONG: LAT:	1: NAD27 35° 53' 55.66"N 98° 12' 13.89"W	
DATUM LAT: LONG: LAT: LONG:	1: NAD27 35° 53' 56.46"N 98° 12' 13.89"W 35.899015°N 98 203857°W	DATUM LAT: LONG: LAT: LONG:	1: NAD27 35° 53' 55.66"N 98° 12' 13.89"W 35.898796°N	
DATUM LAT: LONG: LAT: LONG: Y (N):	1: NAD27 35° 53' 56.46"N 98° 12' 13.89"W 35.899015°N 98 203857°W 327311.51	DATUM LAT: LONG: LAT: LONG:	1: NAD27 35° 53' 55.66"N 98° 12' 13.89"W 35.898796°N 98.203857°W 327231.51	
DATUM LAT: LONG: LAT: LONG: Y (N):	1: NAD27 35° 53' 56.46"N 98° 12' 13.89"W 35.899015°N 98 203857°W	DATUM LAT: LONG: LAT: LONG: Y (N): X (E):	1: NAD27 35° 53' 55.66"N 98° 12' 13.89"W 35.898796°N 98.203857°W 327231.51	
DATUN LAT: LONG: LAT: LONG: Y (N): X (E): DATUN	1: NAD27 35° 53' 56.46"N 98° 12' 13.89"W 35.899015°N 98 203857°W 327311.51	DATUM LAT: LONG: LAT: LONG: Y (N): X (E): DATUM	1: NAD27 35° 53' 55.66"N 98° 12' 13.89"W 35.898796°N 98 203857°W 327231.51 1939620.89 1: NAD83	
DATUN LAT: LONG: LAT: LONG: Y (N): X (E): DATUM LAT:	1: NAD27 35° 53' 56.46"N 98° 12' 13.89"W 35.899015°N 98 203857°W 327311.51 1939621.02 1: NAD83	DATUN LAT: LONG: LAT: LONG: Y (N): X (E): DATUN LAT:	1: NAD27 35° 53' 55.66"N 98° 12' 13.89"W 35.898796°N 98 203857°W 327231.51 1939620.89 1: NAD83 35° 53' 55.81"N	
DATUN LAT: LONG: LAT: LONG: Y (N): X (E): DATUM LAT:	1: NAD27 35° 53' 56.46"N 98° 12' 13.89"W 35.899015°N 98.203857°W 327311.51 1939621.02 1: NAD83 35° 53' 56.60"N 98° 12' 15.12"W	DATUN LAT: LONG: LAT: LONG: Y (N): X (E): DATUN LAT:	1: NAD27 35° 53' 55.66"N 98° 12' 13.89"W 35.898796°N 98 203857°W 327231.51 1939620.89 1: NAD83 35° 53' 55.81"N 98° 12' 15.12"W	
DATUM LAT: LONG: LAT: LONG: Y (N): X (E): DATUM LAT: LONG: LAT:	1: NAD27 35° 53' 56.46"N 98° 12' 13.89"W 35.899015°N 98.203857°W 327311.51 1939621.02 1: NAD83 35° 53' 56.60"N 98° 12' 15.12"W	DATUM LAT: LONG: LAT: LONG: Y (N): X (E): DATUM LAT: LONG: LAT:	1: NAD27 35° 53' 55.66"N 98° 12' 13.89"W 35.898796°N 98 203857°W 327231.51 1939620.89 1: NAD83 35° 53' 55.81"N 98° 12' 15.12"W	
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This location has been staked according to the best official survey records available to us. The metrical data shown hereon is for permitting the well location and the section location may or may not be field verified. Please review this plat and notify us immediately of any discrepancy. The metrical data shown hereon is for permitting the well location and the section location may or may not be field verified.

CERTIFICATE:

I Aaron Morris a Registered Land Surveyor in the State Of Oklahoma, do hereby certify that the above described Well Location was surveyed and staked on the ground as shown and that said plat meets or exceeds the Oklahoma Minimum Technical Standards for the practice of land surveying as adopted by the Oklahoma State Board of Licensure for Professional Engineers and Land Surveyors.

7/15/2019

Aaron L. Morris R.P.L.S. No.1477 Bennett-Morris & Associates Land Surveying P.C. ~ C.A. No. 5795 (LS) Phone (580) 226-5108 Fax (888) 662-7778 1010 Northwest Boulevard Ardmore, OK 73401