UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

RCVD DEC15'06 DIL CONS. DIV. DIST. S

	APPLICATION FOR PERMIT TO DRILL, DEEP	
a.	Type of Work DRILL RECEIVED 070 FARMING	NMSF-077648
b.	Type of Well GAS	6. If Indian, All. or Tribe
2.	Operator BURLINGTON RESCURCES Oil & Gas Company, LP	7. Unit Agreement Name
I.	Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name Davis 9. Well Number #9F
١.	Location of Well Unit B (NWNE) 710' FNL & 1530' FEL	10. Field, Pool, Wildcat Basin Dakota
	Latitude 36° 55.1015'N Longitude 108° 02.7097'W Longitude 20° 55.1015'N	11. Sec., Twn, Rge, Mer. (NMPM) Sec. 12, T31N, R12W API # 30-045-34094
14.	Distance in Miles from Nearest Town	12. County 13. State San Juan NM
15.	Distance from Proposed Location to Nearest Property or Lease L	ine
16.	Acres in Lease	17. Acres Assigned to Well DK - 278.78 ac E/2
18.	Distance from Proposed Location to Nearest Well, Drlg, Compl. 652' from Davis #6A	or Applied for on this Lease
19.	Proposed Depth 7696'	20. Rotary or Cable Tools Rotary
21.	Elevations (DF, FT, GR, Etc.) 6461' GL	22. Approx. Date Work will Start
23.	Proposed Casing and Cementing Program See Operations Plan attached	
24.	Authorized by: Authorized by: Sr. Regulatory Specialist	12-4-0G Date
PERM	IT NO. APPROVAL I	DATE
APPRO	OVED BY AMERICA TITLE AT-A	DATE 12/13
	eological Report attached tened and Endangered Species Report attached	

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

12/22/01 NMOCD

United States any false, fictitious or fraudulent statements or presentations as to any matter within its jurisdiction.

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS". DISTRICT II 1301 W. Grand Ave., Artesia, N.M. 88210

1000 Rio Brozos Rd., Aztec, N.M. 87410

State of New Mexico

Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION

> 1220 South St. Francis Dr. Santa Fe, NM 87505

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

LOT 12

35.03

LOT 13

35.87

DISTRICT III

DISTRICT IV 1220 South St. Francis Dr., Santa Fe, NM 87505

pm 4 13 mote men E

☐ AMENDED REPORT

'API Number	WELL LO	OCATIO	AL AND AC						
	. 7		N AND AC	CREAGE PED	I _C A	TION PL	TA.		ROVD DEC
30-045- 39099	7159	² Pool Code 9	ੁੱ	Basin Dakota	,	³ Paol Name	:		OIL COMS
¹ Property Code 18509			⁵ Property Name DAVIS				Well Number 5757,		
70CRID No. 14538 BURLINGTON RESOURCES OIL							^e Elevation 6461		
			¹⁰ Surface	Location					
UL or lot no. Section Township B 12 31-N	Range 12-W	Lot Idn	Feet from the 710	North/South line NORTH		from the	East/West		County SAN JUAN
	"Botto	om Hole	Location	If Different Fr	om	Surface	<u> </u>		
UL or fot no. Section Township	Range	Lot ldn	Feet from the	North/South line	Feet	from the	East/West	t line	County
² Dedicated Acres 278.78 ac E/2	Joint or Infill		¹⁴ Consolidation C	ode	15 Or (der No.	<u> </u>		
NO ALLOWABLE WILL BE OR A				ION UNTIL ALL BEEN APPROVEI				EN CC	NSOLIDATED
LOT 4	D. 3 1/4" BC. 1951 BLM DT 3 3.32	2236.	13'28" W .43' (M) OT 2 3.52	FD. 3 1/4" 1951	BC. BLM	I hereby cert is true and a belief, and th	ify that the informalies to the	formation co e best of m ration either	y knowledge and owns a warking
LAT: 36 LONG: 108 LAT: 3	91836° N. 04579° W. 6'55.1015' N 8'02.7097' V	(NAD 83 N. (NAD 27) ')	1530' LOT 1 34.12	1	including the right to drill contract with interest, or t	proposed botto this well at this an owner of s o a voluntary p ooling order he	om hole loca is location p such a miner pooling agree	ation or has a urswant to a rai or working ement or a
	OT 6 4.16		LOT 7 34.29		2641.73' (M)	Signature	y Clugs		Dote Regulato ecialist

USA SF-077648

LOT 10

34.99

LOT 15

35.93

12

LOT 11

35.09

LOT 14

35.93

FD. 3 1/4" BC. 1951 BLM

LOT 9

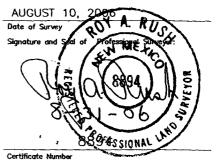
35.05

LOT 16

35.99

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.



Office District I	State of New Mexico	Form C-103		
·	Energy, Minerals and Natural Resources	May 27, 2004		
1625 N. French Dr., Hobbs, NM 88240 District II		WELL API NO. 30-045- 34094		
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION DIVISION	5. Indicate Type of Lease		
District III	1220 South St. Francis Dr.	STATE FEE		
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 87505	6. State Oil & Gas Lease No.		
<u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 875	505	SF-077648		
SUNDRY NOTION	CES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name		
T'	S TO DRILL OR TO DEEPEN OR PLUG BACK TO A ON FOR PERMIT" (FORM C-101) FOR SUCH	Baria		
PROPOSALS.)	ON FOR PERIOR (FORM C-101) FOR SUCH	Davis		
1. Type of Well:		8. Well Number		
Oil Well Gas Well X	Other	9F		
2. Name of Operator RURLINGTON RES	OURCES OIL & GAS COMPANY LP	9. OGRID Number		
3. Address of Operator	OCKCES OIL & GAS COMPARY LI	10. Pool name or Wildcat		
	REET, FARMINGTON, NM 87402	Dakota		
4. Well Location Unit Letter B:	710 feet from the North line and	1530 feet from the East line		
Section 31	Township 32N Rng 12			
	Elevation (Show whether DR, RKB, RT, GR, etc.)			
Pit or Below-grade Tank Application	or Closure 6461'			
Pit type New Drill Depth to Ground		>1000' Distance from nearest surface water >1000'		
Pit Liner Thickness: N/A	mil Below-Grade Tank: Volume	bbls; Construction Material		
12 Charle	Ammanuista Day to Indicate Nature of N			
	Appropriate Box to Indicate Nature of Nontention TO:	•		
PERFORM REMEDIAL WORK	<u> </u>	SUBSEQUENT REPORT OF: AL WORK ALTERING CASING		
TEMPORARILY ABANDON		NCE DRILLING OPNS. P AND A		
PULL OR ALTER CASING	⊢ 1	CEMENT JOB		
OTHER: Nev	v Drill X OTHER:	П		
13. Describe proposed or comple	ted operations. (Clearly state all pertinent details, and	give pertinent dates, including estimated date		
		give permitte autos, moraum commuted auto		
	x). SEE RULE 1103. For Multiple Completions: Att			
of starting any proposed work or recompletion.	x). SEE RULE 1103. For Multiple Completions: Att			
	c). SEE RULE 1103. For Multiple Completions: Att			
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or recompletion.	x). SEE RULE 1103. For Multiple Completions: Att			
	c). SEE RULE 1103. For Multiple Completions: Att			
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BURLINGTON RESOURCES OIL & GAS COMPANY LP DAVIS No. 9F, 710 FNL 1530 FEL

SECTION 12, T-31-N, R-12-W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO GROUND ELEVATION: 6461, DATE: AUGUST 10, 2006

LAT. = 36.91836° N. LONG. = 108.04579° W. NAD 27 LAT. = 36'55.1015' N. LONG. = 108'02.7097' W.

5.0 0.3 10.1 **©** တ် 🗑 ш O 001 120, Ŗ. 3.03 ACRES ш 74.09, Wellhead to Front EDGE OF DISTURBANCE BLOW PIT INSTALL DRAIN PIPE ON FRUITLAND FORMATIONS ONLY 6' DEEP B.R.O.G.-DAMS No. 6A H ഗ 160 (330 X 400') LAYDOWN SEPARATOR 20 20 0.0 <u>5</u> 5.7 apis of Wellhead 7.4 130, 'n ,59 32 ပ Back 70, 230' X 300' 50' CONSTRUCTION ZONE 2.1 Slopes Reserve Pit 8' DEEP EDGE OF DISTURBANCE ملتائه بالمعلق منطق عنيت للتطلق فلتبق 2 Wellhead RISERS 4 DIKE CC. YOS. 5 10' DEEP METER TOTAL CUT: 5443 TOTAL FILL: 4289 VOLUMES EXCLUDING DOC LEG ğ O. EXISTING ROAD 130, 100, C 7.3 10.3 (A (A) F 3.4 REAR ⋖ 4 WFS PA **(**

RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW — 3' WIDE AND 1' ABOVE SHALLOW SIDE). BLOW PIT: OVERFLOW PIPE HALFWAY BETWEEN TOP AND BOTTOM AND TO EXTEND OVER PLASTIC LINER AND INTO BLOW PIT.

NOTE: ESTIMATED VOLUMES CALCULATED BY AVERAGE END AREA AT CROSS-SECTION SHOWN DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION. NOTE:

CONTRACTOR SHOULD CALL ONE—CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION. NOTE:

Daggett Enterprises, Inc.
Surveying and Oil Field Services
P. 0, 6 pm 1508 - Fermington, Mr 87401
Phore (589) 285-1772 - Fer (2013) 385-619
NEW MEXICO L.S. 8894
Owner en A.A.
Coopus Brees, P.B.

OPERATIONS PLAN

Well Name:

DAVIS 9F

Location:

710' FNL & 1530' FEL, Section 12 T31N R12W

San Juan County, New Mexico

Formation:

Basin Dakota

Elevation:

6461' GL

Formation Tops:	<u>Top</u>	Bottom	<u>Contents</u>
Surface	San Jose	1324'	
Ojo Alamo	1324'	1382'	aquifer
Kirtland	1382'	2664 '	gas
Fruitland	2664'	3060'	gas
Pictured Cliffs	3060'	3224'	gas
Lewis	3224'	3726'	
Huerfanito Bentonite	3726'		
Chacra	4129'	4638'	gas
Massive Cliff House	4638'	4859'	gas
Menefee	4859'	5346'	gas
Massive Point Lookout	5346'	5734 '	gas
Mancos Shale	5734'	66881	
Upper Gallup	6688'	7401'	gas
Greenhorn	7401'	7457'	gas
Graneros	7457'	7516'	gas
Two Wells	7516'	7600'	gas
Paguate	7600'	7641'	gas
Cubero	7641'	7686'	gas
Encinal	7686'	7696'	gas
Total Depth:	7696'		gas

Logging Program:

Mud Logs/Coring/DST

Mud logs - none

Coring - none

DST - none

Open hole - none

Cased hole - Gamma Ray, CBL - surface to TD

Mud Program:

<u>Interval</u>	<u>Type</u>	Weight	<u>Vis.</u>	Fluid Loss
0 - 120'	Spud MUD/Air/Air Mist	8.4 - 9.0	40 - 50	no control
120'- 3324'	LSND	8.4 - 9.0	30 - 60	no control
3324' - 7696'	Air/Air Mist/Nitrogen	n/a	n/a	n/a

Casing Program (as listed, the equivalent, or better):

<u> Hole Size</u>	<u>Depth Interval</u>	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
12 1/4"	0' - 120'	9 5/8"	32.3#	H-40
8 3/4"	0' - 3324'	7"	20#	J-55
6 1/4"	0' - 7696'	4 1/2"	10.5#	J-55

Tubing Program:

Depth Interval	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
0' - 7696'	2 3/8"	4.7#	J-55

BOP Specifications, Wellhead and Tests:

Surface to Intermediate TD -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out surface casing, BOPE and casing will be tested to 600 psi for 30 minutes.

Intermediate TD to Total Depth -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out intermediate casing, BOPE and casing will be tested to 1500 psi for 30 minutes.

Surface to Total Depth -

2" nominal, 2000 psi minimum choke manifold (Reference Figure #3).

Completion Operations -

7 1/16" 2000 psi double gate BOP stack (Reference Figure #2). After nipple-up prior to completion, pipe rams, casing and liner top will be tested to 2000 psi for 15 minutes.

Wellhead -

9 5/8" x 7" x 4 ½" x 2 3/8" x 2000 psi tree assembly.

General -

- Pipe rams will be actuated once each day and blind rams will be actuated once each trip to test proper functioning.
- An upper kelly cock valve with handle available and drill string valves to fit each drill string will be available on the rig floors at all times.
- BOP pit level drill will be conducted weekly for each drill crew.
- All BOP tests & drills will be recorded in daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

Cementing:

9 5/8" surface casing -

Pre-Set Drilled - Cement with 23 sx Type I, II cement with 20% flyash mixed at 14.5 ppg, 1.61 cu ft per sack yield. (38 cu ft of slurry, bring cement to surface) Wait on cement for 24 hours for pre-set holes before pressure testing or drilling out from under surface.

Conventionally Drilled - Cement with 88 sx Type III cement with 0.25 pps Celloflake, 2% CaCl. (113 cu ft of slurry, 200% excess, bring cement to surface) Wait on cement for 8 hrs for conventionally set holes before pressure testing or drilling out from under surface. Wait on cement appropriate time until cement achieves 250 psi compressive strength at 60 degrees F. prior to nipple up of BOPE. Wait on cement for 8 hrs for conventionally set holes before pressure testing or drilling out from under surface. Test casing to 600 psi for 30 minutes.

Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

7" intermediate casing -

Lead with 291 sacks (619 cf) Premium Lite cement with 3% calcium chloride, 0.25 pps Celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate. Tail w/90 sacks Type III cmt w/1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss (124 cu ft 50% excess to circulate to surface). WOC minimum of 8 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL or a temperature survey will be run to determine TOC. Test casing to 1500 psi for 30 minutes.

7" intermediate casing alternative two stage -

Stage collar set 300' above the top of the Fruitland. First stage: Lead w/43 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss. Tail w/90 sxs Type III cmt w/1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss. Second stage: 247 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate (743 cu ft - 50% excess to circulate to surface).

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. Bowspring centralizers spaced every other joint off bottom, to the base of the Ojo Alamo @ 1382'. Two turbolating centralizers at the base of the Ojo Alamo @ 1382'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

4 1/2" Production Casing -

Pump 286 sxs Premium Lite HS FM w/0.25 pps celloflake, 0.3% CD-32, 6.25 pps LCM-1, 1% fluid loss, 6% gel, 7 pps CSE (566 cu.ft., 30% excess to achieve 100' overlap in 4-1/2" x 7" annulus). WOC a minimum of 18 hrs prior to completing.

Cementing: Continued

Cement float collar stacked on top of float shoe.

Note: If open hole logs are run, cement volumes will be based on 25% excess over caliper volumes.

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. The liner hanger will have a rubber packoff.

• If hole conditions permit, an adequate water spacer will be pumped ahead of each cement job to prevent cement/ mud contamination or cement hydration.

Special Drilling Operations (Air/Mist Drilling):

The following equipment will be operational while air/mist drilling:

- An anchored blooie line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
- The blooie line will be equipped with an automatic igniter or pilot light.
- Compressors will be located a minimum of 100' from the wellhead in the opposite direction from the blooie line.
- Engines will have spark arresters or water cooled exhaust.
- The rotating head will be properly lubricated and maintained.
- A float valve will be utilized above the bit.
- Mud circulating equipment, water, and mud materials will be sufficient to maintain control of the well.

Additional Information:

- This will be a Dakota only producing well.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

Fruitland Coal 300 psi
Pictured Cliffs 600 psi
Mesa Verde 700 psi
Dakota 2000 psi

- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered below the top of the Pictured Cliffs.
- The East half of Section 12 is dedicated to the Dakota formation.
- This gas is dedicated.



Completion/Workover Rig BOP Configuration 2,000 psi 8ystem

Burlington Resources

2000 psi System

RO PLOOP

Orilling Rig

BURLINGTON RESOURCES

TIVE TIMES

E FELLOP LINES

Total to Total Depth. 2,000psi working pressure equipment with two chokes.

Figure #3

4-20-01

Figure #1

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ensure double gate BOP to be equipped with blind and ipe rams. A stripping head to be installed on the top of Hessume or greater excluding-600 pat athyping head. Spensitone, 7-1/16" bore, 2000 pal minimum warti he BOP. All BOP equipment is 2000 pal working Minimum BOP installation for all Com

10 P - 10