

OCD-ARTESIA

RECEIVED

JUL 18 2005

Form 3160-3
(April 2004)

SUBJECT TO LIKE APPROVAL BY STATE

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NMNM-89051	
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name	
2. Name of Operator Devon Energy Production Company, LP		7. If Unit or CA Agreement, Name and No.	
3a. Address 20 North Broadway Oklahoma City, Oklahoma City 73102-8260		8. Lease Name and Well No. Apache 13 Federal 7 34442	
3b. Phone No. (include area code) 405-552-8198		9. API Well No. 30-015-34220	
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 1210 FSL & 330 FEL At proposed prod. zone 2310 FSL & 1650 FWL R-111-P Permit		10. Field and Pool, or Exploratory Delaware	
14. Distance in miles and direction from nearest town or post office* Approximately 45 miles West from Jal, NM		11. Sec., T. R. M. or Blk. and Survey or Area Sec 13, T22S R30E	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No. of acres in lease 1040 acres	17. Spacing Unit dedicated to this well 80 acres	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 6780' TVD 10,138' MD	20. BLM/BIA Bond No. on file	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3359' GL	22. Approximate date work will start* 07/01/2005	23. Estimated duration 45 days	

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature 	Name (Printed/Typed) Norvella Adams	Date 05/03/2005
Title Sr. Staff Eng. Tech		

Approved by (Signature) /s/ Linda S. C. Rundell	Name (Printed/Typed) /s/ Linda S. C. Rundell	Date JUL 11 2005
Title STATE DIRECTOR	Office NM STATE OFFICE	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

APPROVAL FOR 1 YEAR

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on page 2)

Carlsbad Controlled Water Basin

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

NSL-5238

Sch
D.P.T.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-14
June 1, 200
For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

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Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☒

Type of action: Registration of a pit or below-grade tank ☒ Closure of a pit or below-grade tank ☐

JUL 15 2005

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Operator: Devon Energy Production Company, L.P. Telephone: (405)-552-7802 e-mail address: Stephanie.Ysasaga@devon.com
Address: P.O. Box 250 Artesia, NM 88211
Facility or well name: Apache 13 Federal 7 API #: _____ U/L or Qtr/Qtr P Sec 13 T 22S R 30E
County: Eddy Latitude _____ Longitude _____ NAD: 1927 ☐ 1983 ☐
Surface Owner: Federal ☒ State ☐ Private ☐ Indian ☐

Pit	Below-grade tank
Type: Drilling ☒ Production ☐ Disposal ☐ Workover ☐ Emergency ☐ Lined ☒ Unlined ☐ Liner type: Synthetic ☒ Thickness <u>12</u> mil Clay ☐ Pit Volume _____ bbl	Volume: _____ bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes ☐ If not, explain why not: _____
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet (20 points) 50 feet or more, but less than 100 feet (10 points) <u>100 feet or more</u> (0 points)
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes (20 points) <u>No</u> (0 points)
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet (20 points) 200 feet or more, but less than 1000 feet (10 points) <u>1000 feet or more</u> (0 points)
Ranking Score (Total Points)	

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite ☐ offsite ☐ If offsite, name of facility _____ (3) Attach a general description of remedial action taken including

remediation start date and end date. (4) Groundwater encountered: No ☐ Yes ☐ If yes, show depth below ground surface _____ ft. and attach sample results.

(5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments:

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☒, or an (attached) alternative OCD-approved plan ☐.

Date: 07/14/05

Printed Name/Title Stephanie A. Ysasaga / Senior Engineering Technician Signature _____

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval: Field Supervisor

Printed Name/Title _____ Signature _____

JUL 18 2005

Additional Operator Remarks:

Devon Energy Production Company, LP proposes to drill a Delaware well to 6950' for commercial quantities of oil and gas. If the well is deemed noncommercial, the wellbore will be plugged and abandoned per Federal regulations. Devon Energy Production Co., LP plans to drill the well per the currently approved MDSUP and approved Attachment A of the currently approved Master Drilling and Surface Use Program for the Quahada Ridge, SE Field with approval of the following variance in production casing and cementing :

Devon respectfully requests to set 5 ½" production casing and cement as follows rather than the 7" production casing and cement outlined in the approved MDSUP Attachment A.

5 ½" casing – Stage; 1st lead with 378 sacks (35:65) Poz Class C, 2nd lead with 410 sacks (60:40) Poz Class H, tail with 1079 sacks (60:40) Poz Class H. Stage 2; lead with 408 sacks (35:65) Poz Class C, tail with 200 sacks (60:40) Poz Class C.

Directions: From Hobbs, go 35.7 miles west to WIPP Road; then south on WIPP road for 11.1 miles to lease road 0.6 mile south of MM 2; then southwest on lease road for 1.6 miles; then north for 0.3 mile to location.

DISTRICT I
225 N. French Dr., Hobbs, NM 88240

DISTRICT II
811 South First, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised March 17, 1999

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
		Quahada Ridge, SE Delaware
Property Code	Property Name	Well Number
	APACHE "13" FEDERAL	7
OGRID No.	Operator Name	Elevation
6137	DEVON ENERGY PRODUCTION CO., L.P.	3359'

Surface Location

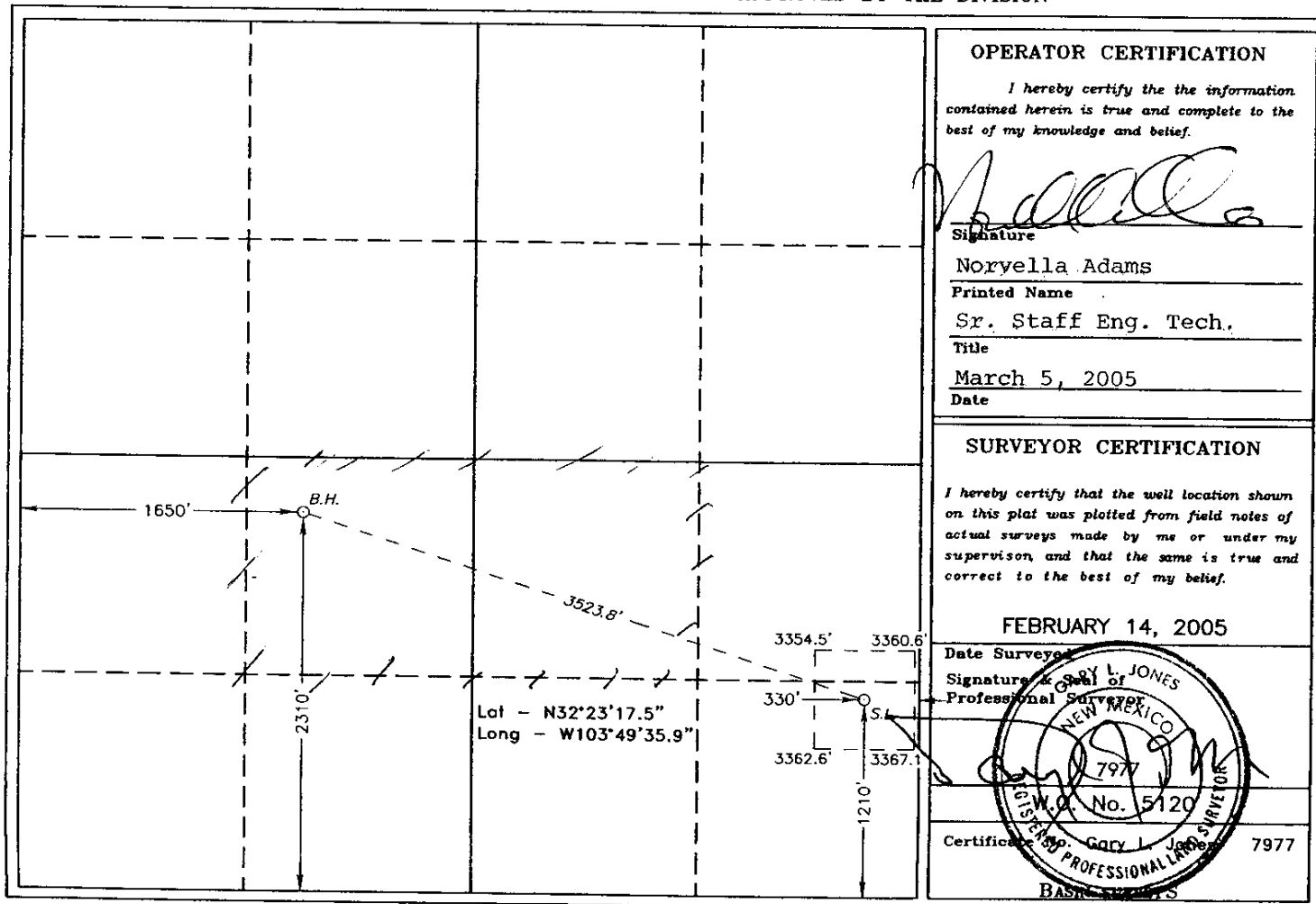
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	13	22 S	30 E		1210	SOUTH	330	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	13	22 S	30 E		2310	SOUTH	1650	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
80			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

I hereby certify the the information
contained herein is true and complete to the
best of my knowledge and belief.

Norvyella Adams
Signature
Norvyella Adams
Printed Name
Sr. Staff Eng. Tech.
Title
March 5, 2005
Date

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.

FEBRUARY 14, 2005

Date Surveyed
Signature of Gary L. Jones
Professional Surveyor
7977
Certificate No. 5120
Gary L. Jones
7977
Professional Surveyor
BASIS SURVEYS



PathFinder Planning Report

Company: Devon Energy
Field: Apache - Section 13, T22-S, R30-E
Site: Apache 13 Federal #7H
Well: Apache 13 Federal #7H
Wellpath: Original Hole

Date: 4/19/2005 Time: 09:04:01 Page: 2
Co-ordinate(NE) Reference: Site: Apache 13 Federal #7H, True North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,288.04Az)
Plan: Plan #2 041804

Survey

MD ft	Incl deg	Azlm deg	TVD ft	+N-S ft	+E-W ft	VS ft	DLS deg/100ft	Bolid deg/100ft	Turn deg/100ft	Tool/Comment
1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	0.00	0.00	
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	0.00	0.00	
1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	0.00	0.00	
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	0.00	0.00	
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	0.00	0.00	
2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.00	0.00	0.00	
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	0.00	0.00	
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	0.00	0.00	
2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	0.00	0.00	
2800.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00	0.00	0.00	
2900.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00	0.00	0.00	
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	0.00	0.00	
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	0.00	0.00	
3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	0.00	0.00	
3300.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	0.00	0.00	
3400.00	0.00	0.00	3400.00	0.00	0.00	0.00	0.00	0.00	0.00	
3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	0.00	0.00	
3600.00	0.00	0.00	3600.00	0.00	0.00	0.00	0.00	0.00	0.00	
3700.00	0.00	0.00	3700.00	0.00	0.00	0.00	0.00	0.00	0.00	
3800.00	0.00	0.00	3800.00	0.00	0.00	0.00	0.00	0.00	0.00	
3900.00	0.00	0.00	3900.00	0.00	0.00	0.00	0.00	0.00	0.00	
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	0.00	
4100.00	0.00	0.00	4100.00	0.00	0.00	0.00	0.00	0.00	0.00	
4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	0.00	0.00	
4300.00	0.00	0.00	4300.00	0.00	0.00	0.00	0.00	0.00	0.00	
4400.00	0.00	0.00	4400.00	0.00	0.00	0.00	0.00	0.00	0.00	
4500.00	0.00	0.00	4500.00	0.00	0.00	0.00	0.00	0.00	0.00	
4600.00	0.00	0.00	4600.00	0.00	0.00	0.00	0.00	0.00	0.00	
4700.00	0.00	0.00	4700.00	0.00	0.00	0.00	0.00	0.00	0.00	
4800.00	0.00	0.00	4800.00	0.00	0.00	0.00	0.00	0.00	0.00	
4900.00	0.00	0.00	4900.00	0.00	0.00	0.00	0.00	0.00	0.00	
5000.00	0.00	0.00	5000.00	0.00	0.00	0.00	0.00	0.00	0.00	
5100.00	0.00	0.00	5100.00	0.00	0.00	0.00	0.00	0.00	0.00	
5200.00	0.00	0.00	5200.00	0.00	0.00	0.00	0.00	0.00	0.00	
5300.00	0.00	0.00	5300.00	0.00	0.00	0.00	0.00	0.00	0.00	
5400.00	0.00	0.00	5400.00	0.00	0.00	0.00	0.00	0.00	0.00	
5500.00	0.00	0.00	5500.00	0.00	0.00	0.00	0.00	0.00	0.00	
5600.00	0.00	0.00	5600.00	0.00	0.00	0.00	0.00	0.00	0.00	
5700.00	0.00	0.00	5700.00	0.00	0.00	0.00	0.00	0.00	0.00	
5800.00	0.00	0.00	5800.00	0.00	0.00	0.00	0.00	0.00	0.00	
5900.00	0.00	0.00	5900.00	0.00	0.00	0.00	0.00	0.00	0.00	
6000.00	0.00	0.00	6000.00	0.00	0.00	0.00	0.00	0.00	0.00	
6100.00	0.00	0.00	6100.00	0.00	0.00	0.00	0.00	0.00	0.00	
6200.00	0.00	0.00	6200.00	0.00	0.00	0.00	0.00	0.00	0.00	
6300.00	0.00	0.00	6300.00	0.00	0.00	0.00	0.00	0.00	0.00	
6322.50	0.00	0.00	6322.50	0.00	0.00	0.00	0.00	0.00	0.00	
6325.00	0.30	288.04	6325.00	0.00	-0.01	0.01	12.00	12.00	0.00	
6350.00	3.30	288.04	6349.98	0.25	-0.75	0.79	12.00	12.00	0.00	
6375.00	6.30	288.04	6374.89	0.89	-2.74	2.88	12.00	12.00	0.00	
6400.00	9.30	288.04	6399.66	1.94	-5.97	6.28	12.00	12.00	0.00	
6425.00	12.30	288.04	6424.21	3.39	-10.42	10.96	12.00	12.00	0.00	



PathFinder Planning Report

Company: Devon Energy
Field: Apache - Section 13, T22-S, R30-E
Site: Apache 13 Federal #7H
Well: Apache 13 Federal #7H
Wellpath: Original Hole

Date: 4/19/2005 Time: 09:04:01 Page: 3
Co-ordinate(NE) Reference: Site: Apache 13 Federal #7H, True North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,288.04Azi)
Plan: Plan #2 041804

Survey

MD ft	Incl deg	Azin deg	TVD ft	+N-S ft	+E-W ft	VS ft	DLS deg/100ft	Bulld deg/100ft	Turn deg/100ft	Tool/Comment
6450.00	15.30	288.04	6448.49	5.24	-16.09	16.92	12.00	12.00	0.00	
6475.00	18.30	288.04	6472.42	7.48	-22.98	24.15	12.00	12.00	0.00	
6500.00	21.30	288.04	6495.94	10.10	-31.01	32.61	12.00	12.00	0.00	
6525.00	24.30	288.04	6518.98	13.10	-40.22	42.30	12.00	12.00	0.00	
6550.00	27.30	288.04	6541.49	16.47	-50.56	53.18	12.00	12.00	0.00	
6575.00	30.30	288.04	6563.40	20.20	-62.01	65.22	12.00	12.00	0.00	
6600.00	33.30	288.04	6584.84	24.28	-74.54	78.39	12.00	12.00	0.00	
6625.00	36.30	288.04	6605.17	28.69	-88.10	92.66	12.00	12.00	0.00	
6650.00	39.30	288.04	6624.92	33.44	-102.67	107.98	12.00	12.00	0.00	
6675.00	42.30	288.04	6643.84	38.50	-118.20	124.31	12.00	12.00	0.00	
6700.00	45.30	288.04	6661.89	43.85	-134.85	141.61	12.00	12.00	0.00	
6725.00	48.30	288.04	6679.00	49.50	-151.97	159.83	12.00	12.00	0.00	
6750.00	51.30	288.04	6695.14	55.41	-170.13	178.92	12.00	12.00	0.00	
6775.00	54.30	288.04	6710.26	61.57	-189.06	198.83	12.00	12.00	0.00	
6800.00	57.30	288.04	6724.30	67.98	-208.71	219.51	12.00	12.00	0.00	
6825.00	60.30	288.04	6737.25	74.60	-228.04	240.89	12.00	12.00	0.00	
6850.00	63.30	288.04	6749.07	81.42	-248.99	262.92	12.00	12.00	0.00	
6875.00	66.30	288.04	6759.71	88.42	-271.50	285.53	12.00	12.00	0.00	
6900.00	69.29	288.04	6769.16	95.59	-293.50	308.68	12.00	12.00	0.00	
6925.00	72.28	288.04	6777.38	102.90	-315.95	332.28	12.00	12.00	0.00	
6950.00	75.29	288.04	6784.36	110.33	-338.77	356.29	12.00	12.00	0.00	
6975.00	78.29	288.04	6790.07	117.87	-361.91	380.82	12.00	12.00	0.00	
7000.00	81.29	288.04	6794.50	125.49	-385.30	405.22	12.00	12.00	0.00	
7025.00	84.29	288.04	6797.63	133.17	-408.88	430.02	12.00	12.00	0.00	
7050.00	87.29	288.04	6799.47	140.89	-432.59	454.95	12.00	12.00	0.00	
7072.56	90.00	288.04	6800.00	147.87	-454.03	477.50	12.00	12.00	0.00	
7085.04	90.37	288.04	6799.86	151.74	-465.90	489.99	3.00	3.00	-0.03	
7100.00	90.37	288.04	6799.88	156.37	-480.12	504.94	0.00	0.00	0.00	
7200.00	90.37	288.04	6799.21	187.33	-575.21	604.94	0.00	0.00	0.00	
7300.00	90.37	288.04	6798.55	218.29	-670.29	704.94	0.00	0.00	0.00	
7400.00	90.37	288.04	6797.90	249.26	-765.37	804.94	0.00	0.00	0.00	1st APP
7500.00	90.37	288.04	6797.25	280.22	-860.46	904.94	0.00	0.00	0.00	1459 FSL
7600.00	90.37	288.04	6796.59	311.18	-955.54	1004.93	0.00	0.00	0.00	1045 FSL
7700.00	90.37	288.04	6795.94	342.14	-1050.62	1104.93	0.00	0.00	0.00	
7800.00	90.37	288.04	6795.29	373.10	-1145.71	1204.93	0.00	0.00	0.00	
7900.00	90.37	288.04	6794.63	404.07	-1240.79	1304.93	0.00	0.00	0.00	
8000.00	90.37	288.04	6793.98	435.03	-1335.88	1404.93	0.00	0.00	0.00	
8100.00	90.37	288.04	6793.32	465.99	-1430.96	1504.92	0.00	0.00	0.00	
8200.00	90.37	288.04	6792.67	496.95	-1526.04	1604.92	0.00	0.00	0.00	
8300.00	90.37	288.04	6792.02	527.91	-1621.13	1704.92	0.00	0.00	0.00	
8400.00	90.37	288.04	6791.36	558.88	-1716.21	1804.92	0.00	0.00	0.00	
8500.00	90.37	288.04	6790.71	589.84	-1811.29	1904.91	0.00	0.00	0.00	
8600.00	90.37	288.04	6790.06	620.80	-1906.38	2004.91	0.00	0.00	0.00	
8700.00	90.37	288.04	6789.40	651.78	-2001.46	2104.91	0.00	0.00	0.00	
8800.00	90.37	288.04	6788.75	682.73	-2096.55	2204.91	0.00	0.00	0.00	
8900.00	90.37	288.04	6788.09	713.69	-2191.63	2304.91	0.00	0.00	0.00	
9000.00	90.37	288.04	6787.44	744.65	-2286.71	2404.90	0.00	0.00	0.00	
9100.00	90.37	288.04	6786.79	775.61	-2381.80	2504.90	0.00	0.00	0.00	
9200.00	90.37	288.04	6786.13	806.57	-2476.88	2604.90	0.00	0.00	0.00	
9300.00	90.37	288.04	6785.48	837.54	-2571.97	2704.90	0.00	0.00	0.00	
9400.00	90.37	288.04	6784.83	868.50	-2667.05	2804.90	0.00	0.00	0.00	
9500.00	90.37	288.04	6784.17	899.46	-2762.13	2904.89	0.00	0.00	0.00	
9600.00	90.37	288.04	6783.52	930.42	-2857.22	3004.89	0.00	0.00	0.00	



PathFinder Planning Report

Company: Devon Energy
Field: Apache - Section 13, T22-S, R30-E
Site: Apache 13 Federal #7H
Well: Apache 13 Federal #7H
Wellpath: Original Hole

Date: 4/19/2005 Time: 09:04:01 Page: 4
Co-ordinate(N/E) Reference: Site: Apache 13 Federal #7H, True North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,288.04Azl)
Plan: Plan #2.041804

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N-S ft	+E-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
9700.00	90.37	288.04	6782.87	961.38	-2952.30	3104.89	0.00	0.00	0.00	
9800.00	90.37	288.04	6782.21	992.35	-3047.38	3204.89	0.00	0.00	0.00	
9900.00	90.37	288.04	6781.56	1023.31	-3142.47	3304.88	0.00	0.00	0.00	
10000.00	90.37	288.04	6780.90	1054.27	-3237.55	3404.88	0.00	0.00	0.00	
10100.00	90.37	288.04	6780.25	1085.23	-3332.64	3504.88	0.00	0.00	0.00	
10138.32	90.37	288.04	6780.00	1097.10	-3369.07	3543.20	0.00	0.00	0.00	

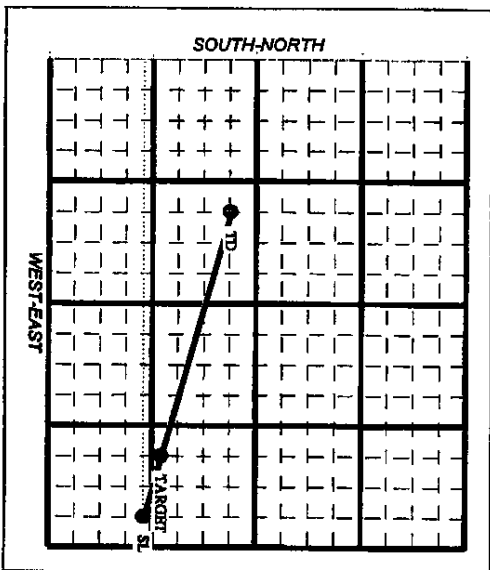
Proposed Well Stakings

all in T22S, R30E

	Surface Location			BHL			Directions
Apache 24 Fed #10	2530' FSL	330' FEL	Sec 24	1650' FNL	1650' FWL	Sec 24	from PL lease rd jct go north .1 mile to location
Apache 24 Fed #11	1430' FNL	330' FEL	Sec 24	330' FNL	1650' FWL	Sec 24	go north .3 mile to location
Apache 13 Fed #7	1210' FSL	330' FEL	Sec 13	2310' FSL	1650' FWL	Sec 13	go north .9 mile to location
Apache 13 Fed #8	2530' FNL	330' FEL	Sec 13	1650' FNL	1650' FWL	Sec 13	go north 1.1 mile to location

Directional Well Planner
Ramp-Shaped Well

FILE: Apache 13-7 dr proposal.XLS



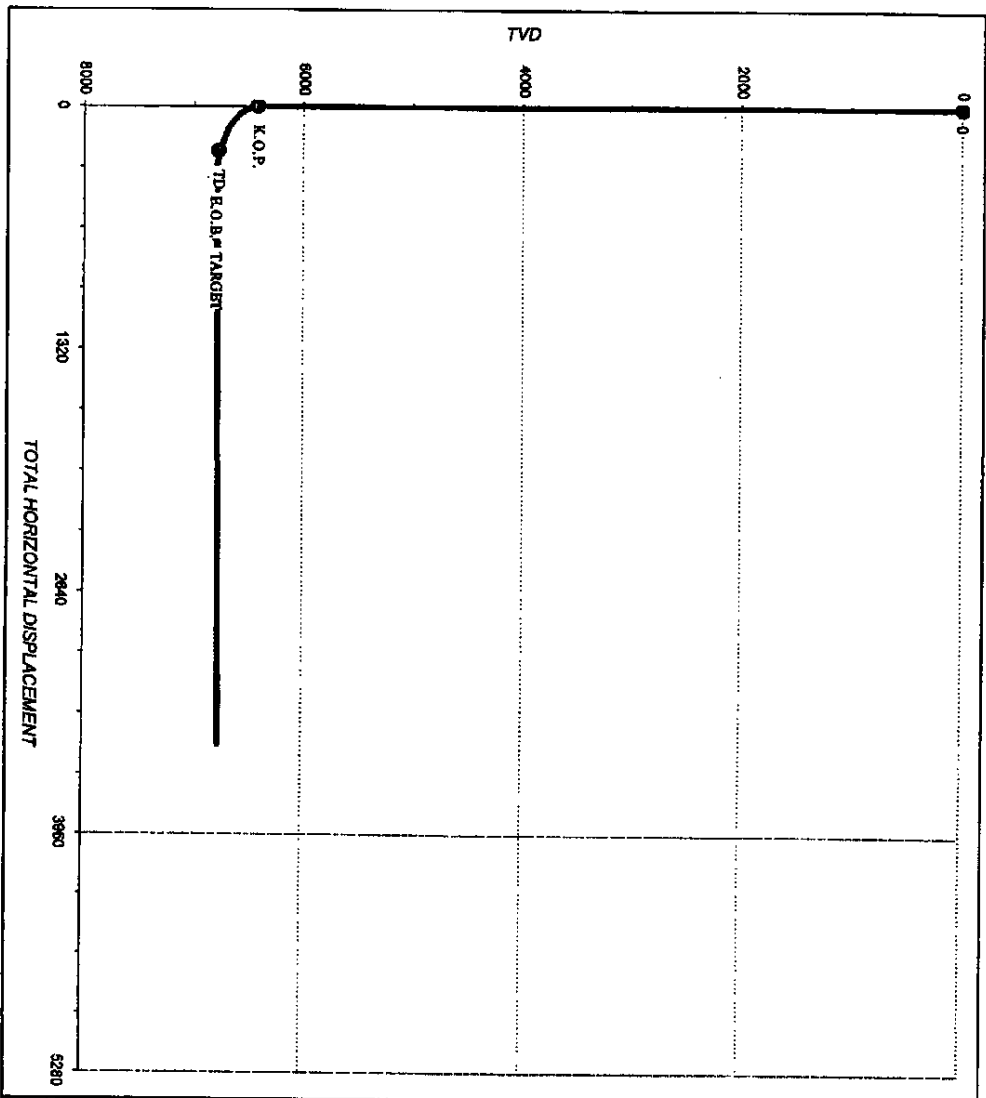
Design Data					
Kc	Point	MD	TVD	Total Disp.	Azimuth: N 71.57° W
7.030	Build	6.423	6.423	0	Build Rate (Deg/100'): 15.00°
6.980	TD	6.805	6.780	245	Ramp Angle (Deg): 91.00°

Locations & Targets					
Surface	MD	TVD	Distance	Distance	Block No.
Target	7.357	6.800			
BHL	6.880	6.780			

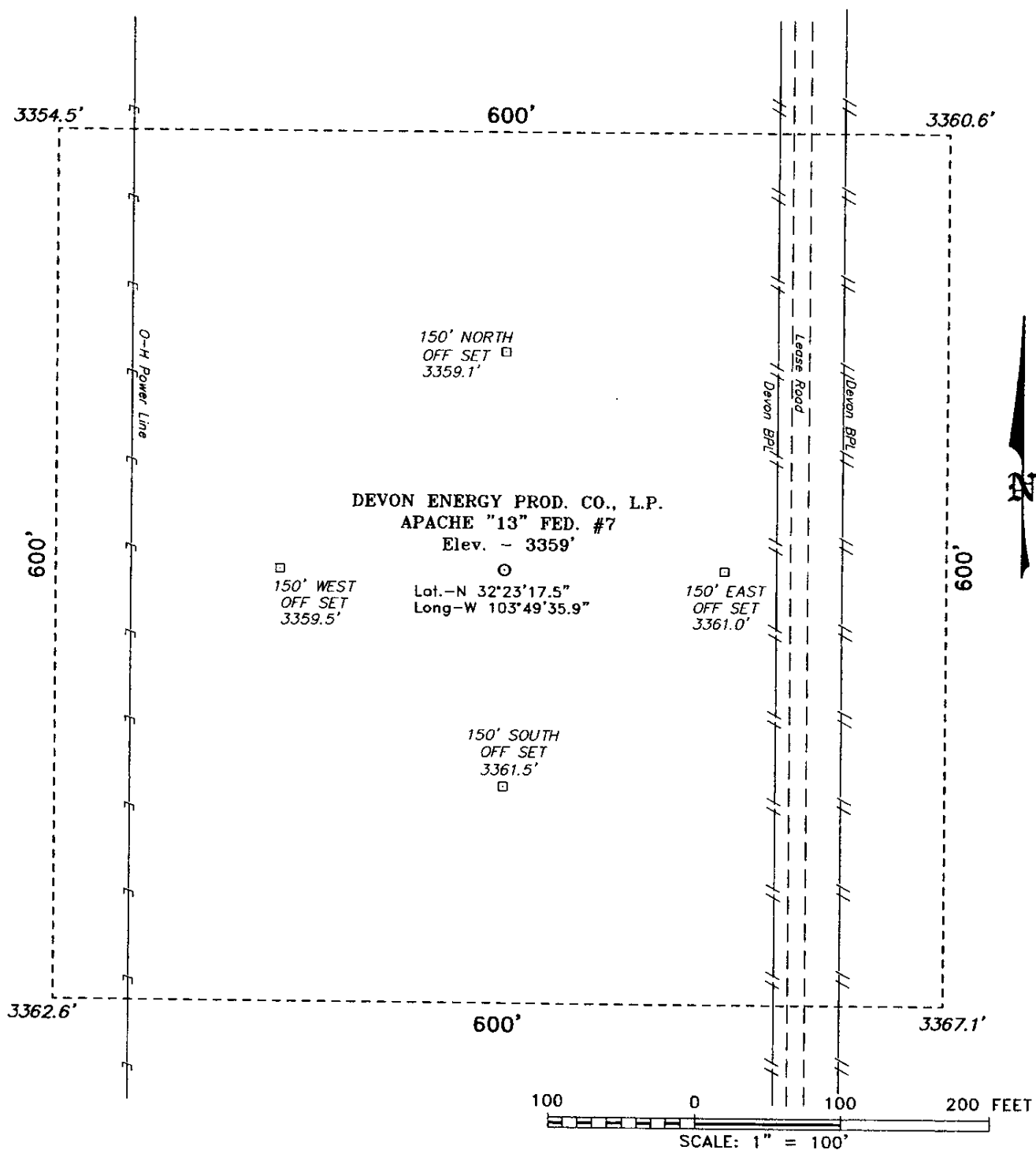
devon
Apache 13 Fed #7
Quahada Ridge (Del)
Sec 13, T22S, R30E

Revised
5/14/2004

devon



SECTION 13, TOWNSHIP 22 SOUTH, RANGE 30 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



Directions to Location:

FROM HOBBS, GO 35.7 MILES WEST TO WIPP ROAD;
THENCE SOUTH ON WIPP ROAD FOR 11.1 MILES TO
LEASE ROAD 0.6 MILE SOUTH OF MM 2; THENCE
SOUTHWEST ON LEASE ROAD FOR 1.6 MILE; THENCE
NORTH FOR 0.3 MILE TO LOCATION.

BASIN SURVEYS P.O. BOX 1786-HOBBS, NEW MEXICO

W.O. Number: 5120 Drawn By: K. GOAD

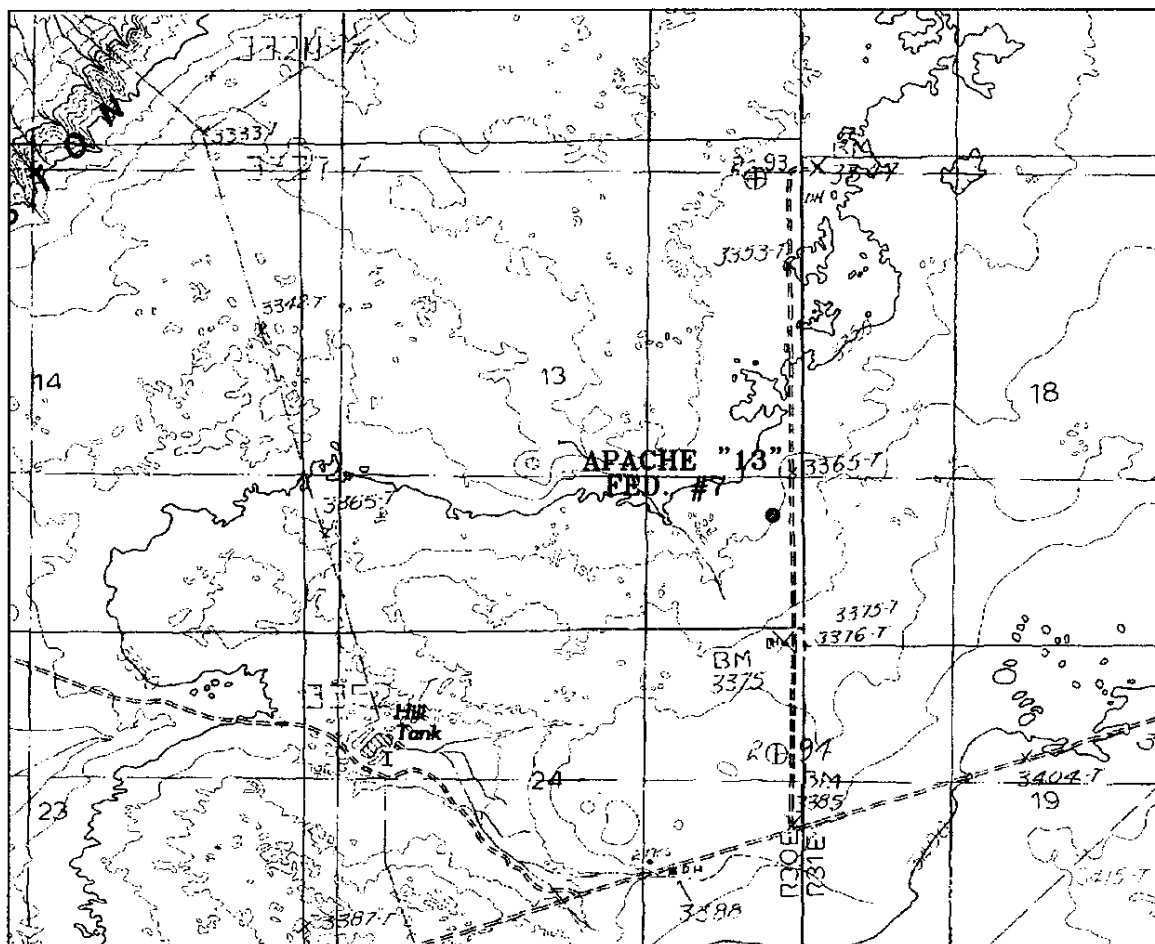
Date: 02-16-2005 Disk: KJG CD#4 - 5120A.DWG

DEVON ENERGY PROD. CO., L.P.

REF: APACHE "13" FED. No. 7 / Well Pad Topo

THE APACHE "13" FED No. 7 LOCATED 1210' FROM
THE SOUTH LINE AND 330' FROM THE EAST LINE OF
SECTION 13, TOWNSHIP 22 SOUTH, RANGE 30 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO.

Survey Date: 02-14-2005 Sheet 1 of 1 Sheets



APACHE "13" FEDERAL #7

Located at 1210' FSL and 330' FEL
 Section 13, Township 22 South, Range 30 East,
 N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786
 1120 N. West County Rd.
 Hobbs, New Mexico 88241
 (505) 393-7316 - Office
 (505) 392-3074 - Fax
basinsurveys.com

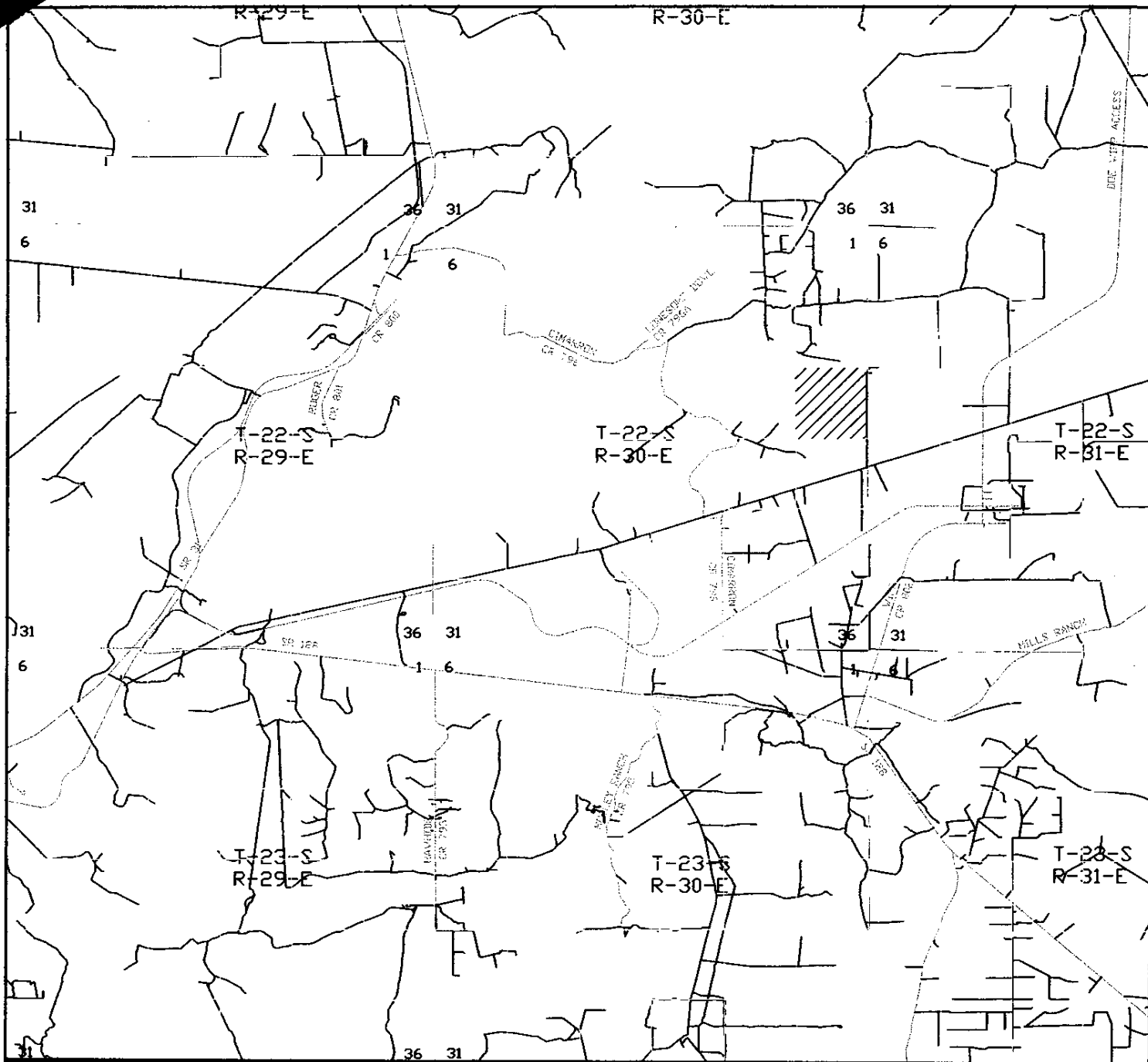
W.O. Number: 5120AA - KJG #1

Survey Date: 02-14-2005

Scale: 1" = 2000'

Date: 02-16-2005

**DEVON ENERGY
 PROD. CO., L.P.**



APACHE "13" FEDERAL #7
 Located at 1210' FSL and 330' FEL
 Section 13, Township 22 South, Range 30 East,
 N.M.P.M., Eddy County, New Mexico.

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 Hobbs, New Mexico 88241
 (505) 393-7316 - Office
 (505) 392-3074 - Fax
 basinsurveys.com

W.O. Number: 5120AA - KJG #1

Survey Date: 02-14-2005

Scale: 1" = 2 miles

Date: 02-16-2005

DEVON ENERGY
PROD. CO., L.P.



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Roswell Field Office
2909 West Second Street
Roswell, New Mexico 88201

IN REPLY REFER TO:

JUN 15 2004

Devon Energy Production Company, L.P.
Attn. Ms Linda Guthrie
20 North Broadway, Suite 1500
Oklahoma City, Oklahoma 73102-8260

Re: Master Drilling and Surface Use Plan
Delaware Formation
T. 22 S., R. 30 E., Sections 12, 13, 24, & 25
Eddy County, New Mexico

The Attachment A to the master drilling and surface use plan, dated May 28, 2004, for the Delaware formation in sections cited above is now approved. This amendment accommodates changes in casing design and cementing for drilling several horizontal wells located in the above sections. An approved copy is attached for your records.

If you have any questions, please contact Alexis C. Swoboda, P.E. at 505-627-0228.

Sincerely,

Larry D. Bray
Assistant Field Manager
Lands and Minerals