

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. 14-20-603-373 (BIA)
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo
2. NAME OF OPERATOR HARKEN SOUTHWEST CORPORATION		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR P. O. Drawer 612007, Dallas, Texas 75261		8. FARM OR LEASE NAME Big Sky 6E(6L)
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 2585' FNL & 125" FWL (NW/SW) At proposed prod. zone 2420' FSL & 487' FWL		9. WELL NO. #1
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 18 miles by road southeast of Montezuma Creek		10. FIELD AND POOL, OR WILDCAT Wildcat
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. 125' FWL (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE 2522	17. NO. OF ACRES ASSIGNED TO THIS WELL 80
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED OR APPLIED FOR, ON THIS LEASE, FT. 2700'	19. PROPOSED DEPTH 5700' MD	20. ROTARY OR CABLE TOOLS Rotary
21. ELEVATIONS (Show whether DF, BT, GR, etc.) 4726' GR		22. APPROX. DATE WORK WILL START* June 15, 1994

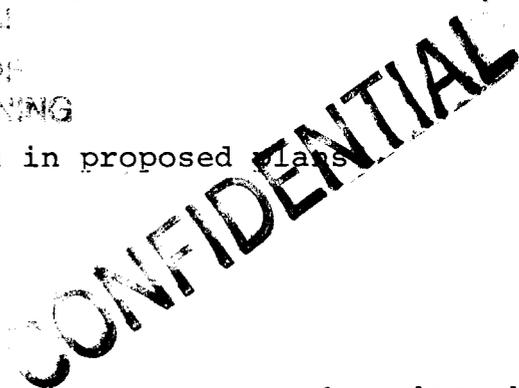
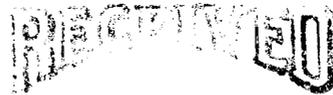
PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24	425'	305 sx Class "B"
7-7/8"	5-1/2"	15.5	5700'	2 Stage Cementing Plan
				**SEE ATTACHED 10 Point Drilling Plan

ATTACHED:

- Ten Point Drilling Plan
- Surface Use Plan
- Detailed Drilling Plan

Attachments and Exhibits as referenced in proposed plans



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

R. Montgomery R. Montgomery, Production Administrator, 5/2/94

(This space for Federal or State office use)

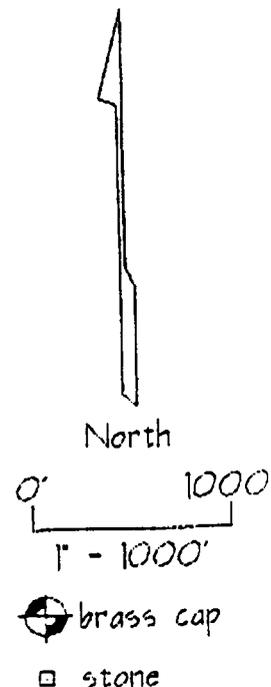
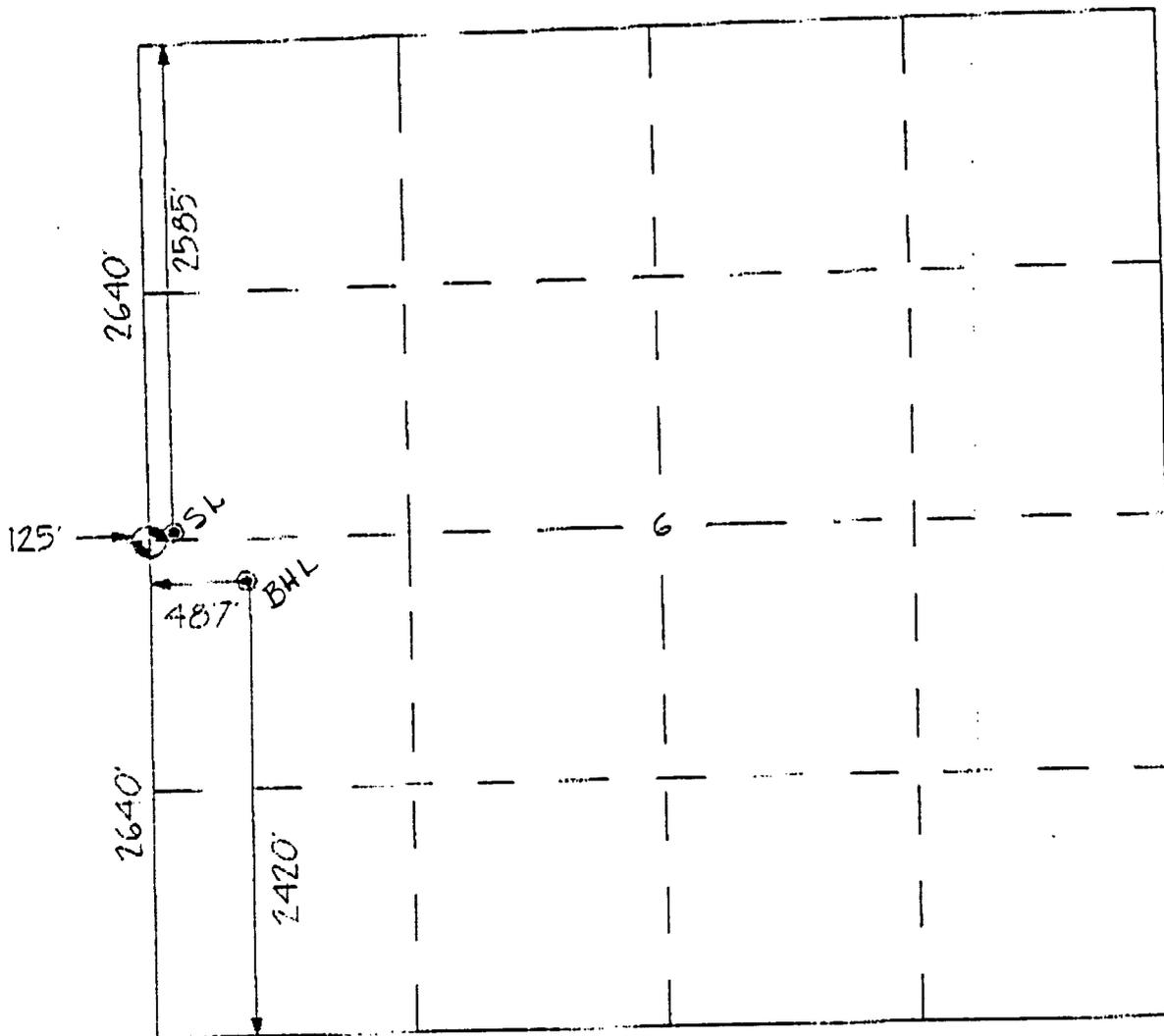
PERMIT NO. 43-037-31714 APPROVAL DATE: 8/24/94

APPROVED BY: [Signature] TITLE: [Signature] DATE: 8/24/94 BY: [Signature]

CONDITIONS OF APPROVAL, IF ANY: WELL SPACING 649-3-3

*See Instructions On Reverse Side

Well Location Plat



Well Location Description

HARKIN SOUTHWEST CORPORATION
BIG SKY 6E (6L) - 1

2585' FNL & 125' FWL (top hole)

2420' FSL & 487' FWL (bottom hole)

Section 6, T.42 S., R.25 E., SLM

San Juan County, Utah

4726' ground elevation from seismic

State plane coordinates from seismic control

x = 2,663,565 y = 189,339 (top hole)

x = 2,663,927 y = 189,064 (bottom hole) sta. 128.5 line WMT - 8



rev. 17 MARCH 1994

Gerald G. Huddleston
Gerald G. Huddleston, L.S.

The above is true and correct to my knowledge and belief.

HARKEN SOUTHWEST CORPORATION

TEN POINT DRILLING PLAN

Big Sky 6E(6L) #1
Section 6-42S-25E
Surface: 2585' FNL & 125' FWL
Subsurface: 2420' FSL & 487' FWL
San Juan County, Utah

This well is to be drilled as an exploratory test. The test will be drilled to an approximate depth of 5,600' TVD (\pm 5,700' MD) where it will TD in the top of the Akah formation. Subsurface conditions necessitate that this well be drilled as a directional hole. The surface location will be \pm 450' northwest of the bottom hole location.

1. SURFACE FORMATION:

Geological name of the surface formation: Morrison

2. ELEVATION:

Surface elevation is 4726' GL/4739' KB

3. ESTIMATED TOPS OF GEOLOGICAL MARKERS:

See Attachment 1

ANTICIPATED FORMATIONS FOR WATER, OIL, GAS AND OTHER MINERALS:

Potential Waterbearing formations:

Navajo
DeChelly

Mineral bearing formations (Oil and/or Gas):

Upper Ismay
Lower Ismay
Desert Creek
Akah

4. PROPOSED CASING/CEMENTING PROGRAM:

	<u>DEPTH</u>	<u>SIZE</u>	<u>WEIGHT</u>	<u>GRADE</u>	<u>COUPLING</u>
	<u>(MD)</u>				
Surface	425'	8-5/8"	24.0 ppf	K-55	STC
Production	5700'	5-1/2"	15.5 ppf	K-55	LTC

5. BLOWOUT PREVENTER (SEE ATTACHED SCHEMATICS)

As abnormal pressure is not anticipated, a 2000 psi BOP system would be sufficient for the drilling of this well. A 3000 psi system will be used, as per attached Exhibits "A" and "B". This will be a 10" x 900 series double ram preventer, equipped with a set of pipe and blind rams.

An accumulator system, with a pressure capacity sufficient to operate the rams three complete cycles without rig power, will be required as part of the rig equipment.

6. PROPOSED MUD PROGRAM

Surface to 3600'MD

Fresh water, gel, lime and native solids. Weight 8.3 - 8.7 ppg. Gel/lime sweeps are necessary for hole cleaning.

3600'MD to TVD

Low solids, non-dispersed polymer system. Weight 8.6 - 8.8 ppg. Gel/lime sweeps as hole conditions dictate for hole cleaning. Fluid loss to be maintained at 15 cc or less. Fluid loss to be further reduced to 10 cc or less prior to coring, logging or DSTS.

7. AUXILIARY EQUIPMENT

A. A kelly cock will be installed during drilling operations, with handle available on rig floor.

B. Full Opening Safety (FOSV) valves will be available on the rig floor at all times, with necessary subs to fit all of the drilling assemblies.

C. Mud will be the circulating fluid. No abnormal formation pressures are expected.

SURFACE CEMENTING:

Surface to 425'. 305 sx Class 'G' Cement 2% CaCl₂ and 1/4 lb/sk Celloflake. Weight = 15.8 ppg, yield = 1.15 ft³/sk. Total of 350 ft³. Slurry volume will be calculated at 100% excess over annular volume.

PRODUCTION CEMENTING:

Stage 1:

TD to 3500'MD. (Stage collar @ +/-3500'MD). Lead with 186 sx Class 'G' cement, 65:35 Pozmix with 6% gel and 1/4 lb/sk Celloflake. Weight = 12.7 ppg, yield = 1.85 ft³/sk. Tail with 100 sx Class 'G' cement with 2% CaCl₂. Weight = 15.8 ppg, yield = 1.15 ft³/sk. Total of 458 ft³ with 15% excess.

STAGE 2:

3500'MD-SURFACE. Lead with 315 sx Class 'G' cement, 65:35 Pozmix with 6% gel and 1/4 lb/sk Celloflake. Weight = 12.7 ppg, yield = 1.85 ft³/sk. Tail with 100 sx Class 'G' cement with 2% CaCl₂. Weight = 15.8 ppg, yield = 1.15 ft³/sk. Total of 697 ft³ @ 15% excess.

NOTE: Exact slurry volumes for the production string will be adjusted according to the caliper log which will be run prior to cementing. Special adjustments may be necessary if significant amounts of salt are drilled.

CENTRALIZERS:

8 5/8" Surface String: Center of shoe jt., jt. 3, jt. 5, jt. 7, and surface jt.

NOTE: Put asterik on each pipe tally joint for each centralizer installed.

5 1/2" Production String: Center of shoe jt 1, jt. 2, jt. 4, jt. 6, jt. 8, and every third jt. up to DV Tool @ +/- 3500'. Four (4) centralizers through DeChelly and two (2) centralizers @ surface.

NOTE: Put asterik on each pipe tally joint for each centralizer installed.

8. WELL EVALUATION

Electric Log Program:

DLL	TD to 4000' (minimum)
Sonic (integrated)	TD to surface
CNL-FDC Litho-Density	TD to 4000' (minimum)
Micro-Log (Optional)	TD to 1000' above TD (minimum)

A wireline survey which calculates inclination and direction will be run in tandem to determine exact bottom hole location.

Cores:

Sidewall cores are contingent on shows. No whole cores are planned.

DST:

Drill stem testing will be as per the well site geologist' recommendations, based on shows. A mud logging unit will be utilized during drilling operations beginning at approximately 4200'MD.

9. ABNORMAL PRESSURES/GAS

Abnormal pressures are not anticipated. monitoring of gas and hydrocarbon shows will be by wellsite mud logging unit. H₂S gas is not anticipated.

10. TIMING

The drilling and evaluation of this well is estimated to be \pm 18 days. Anticipated drilling will begin on or about June 15, 1994.

HARKEN SOUTHWEST CORPORATION

DETAILED DRILLING PROGRAM

Big Sky 6E(6L) #1
Section 6-42S-25E
Surface: 2585' FNL & 125' FWL
Subsurface: 2420' FSL & 487' FWL
San Juan County, Utah

ELEVATION: 4726' GL / 4739' KB

PROPOSED TOTAL DEPTH: 5609' TVD / 5693' MD

PROJECTED HORIZON - Primary Target: Desert Creek

GENERAL DRILLING PROCEDURES:

1. Build location and prepare access road. Fence reserve pit on 3 sides. NOTIFY BLM - FARMINGTON NEW MEXICO (505/327-5344) and STATE OF UTAH (801\538-5340) 24 hours prior to spud. NOTE on report the person(s) contacted. Post copies of all regulatory permits in the doghouse. Erect a well location sign.
2. Move in and rig up rotary tools. Report GL to KB measurement and also report any conductor casing depth on IADC tour sheets and morning reports. Have water checked by cementing company for compatibility.
3. Drill mousehole and rathole. Mix mud prior to spudding well.
4. Drill 12-1/4" hole to +/- 425'. Use fresh water gel/lime spud mud for surface hole. Prepare to run deviation surveys at casing point and/or bit trip. Wellbore is not to exceed 1 degree to 425'.
5. RU casing crew to run:
8-5/8", 24#/ft, K-55, STC casing to 425'
Cement with 305 sx of Class "B" cement (1.15 yield @ 100% excess) with 2% CaCl₂ and 1/4 lb/sx Celloflake. (with sufficient slurry volume to circulate cement to surface).
6. WOC a minimum of 4 hours prior to nipping up for BOP stack and related equipment. See BOP schematics for detail - Exhibit A.

7. Ensure plug has been down at least 8 hours prior to commencing pressure test procedures. Pressure test BOP to 2500 psig for 30 minutes. Pressure test manifold and all related equipment to 2500 psig. Pressure test casing to 2000 psig for 30 minutes. NOTE: Notify BLM - Farmington, New Mexico (505\327-5344) 24 hours prior to BOP test. Note notification and testing results on IADC tour reports.
8. Drill out surface casing with 7-7/8" bit. Drill 7-7/8" hole to \pm 5600' TVD. Deviation surveys are to be taken every 500' or on a bit trip, whichever occurs first down to kick-off point (KOP). KOP is estimated to be at +\ - 3630'. Mud motor and directional equipment will be utilized as per Well Profile Data Sheet prepare by Baker Hughes and enclosed as Attachment 6.
9. Run open hole logs and evaluate. Logging and testing will be in accordance with details outline in item 8, *Well Evaluation*, of the Ten Point Drilling Plan. Coring and/or drill stem testing will determined based on the recommendation of the wellsite geologist.
10. If the well is determined to be productive, run 5-1/2" casing to TD, as per casing design outline in item 4, *Proposed Casing/Cementing Program*, of the Ten Point Drilling Plan. In addition to placing centralizers over potential hydrocarbon bearing formations, they will also be run to cover the aquifer sands of the DeChelly formation. Cement production casing in two stages as per the Ten Point Drilling Plan.
 - a. Upon determination of commercial production, completion work will commence upon approval of Sundry Notice outlining procedures. Completion will include, MIRU completion rig, perforate, acidize and testing of each productive porosity zone.
 - b. ND BOPE, set 5-1/2" casing slips and cut off casing. Install wellhead.
11. If the well is determined not to be productive, the wellbore will be plugged as per BIA/BLM and State of Utah requirements.
12. Release drilling rig and move off of location. Note time of rig release on IADC tour report. Fence 4th side of reserve pit immediately upon rig move. Fill in rathole and mousehole after rig is gone. Install screening or netting over the reserve pit to protect wildlife.

BIG SKY 6-LN
NWSW SEC. 6 T42S R25E
San Juan County, Utah

FORMATION	LITHOLOGY	MEASURED DEPTH	TVD	PROJECTED TOP SUBSEA
Morrison	Shale			Surface
Navajo	Sandstone	902	902	+3837
Chinle	Shale/SltSt/SS	1237	1237	+3502
DeChelly	Sandstone	2427	2427	+2312
Organ Rock	SltSt/Sh/SS	2689	2689	+2050
Cedar Mesa	SltSt/Sh/SS	3312	3312	+1427
Hermosa	SltSt/Sh/SS	4391	4382	+ 357
Upper Ismay	LS/Dolo/Anhy	5304	5243	- 504
Lower Ismay	LS/Dolo/Anhy	5399	5332	- 593
Desert Creek	LS/Dolo/Anhy	5454	5384	- 645 Primary Obj.
Akah	LS/Anhy/Salt	5640	5559	- 820
Total Depth		5693	5609	- 870

HARKEN SOUTHWEST CORPORATION

Attachment 1

HARKEN SOUTHWEST CORPORATION

SURFACE USE PLAN

Big Sky 6E(6L) #1
Section 6-42S-25E
Surface: 2585' FNL & 125' FWL
Subsurface: 2420' FSL & 487' FWL
San Juan County, Utah

1. EXISTING ROADS

The well location is situated approximately 18 miles southeast of Montezuma Creek, Utah by road. Attachment 2, is a topographic map showing the roads in the immediate area. Approximately 800' of new road will need to be built. Attachment 3, is a topographic vicinity map, showing the location in relation to the nearest town, village and landmark. All existing roads will be maintained in a good and passable condition during drilling operations.

2. PLANNED ACCESS ROAD

Attachment 2, indicates approximately 800' of newly constructed road. The road will be maintained as necessary to prevent excessive damage to the existing terrain. All equipment and vehicles will be instructed to remain on the access road, well pad and areas specified. The road will be upgraded if commercial production is established.

3. EXISTING WELLS

The proposed location is:

5500' southwest of Big Wash Field (Zollar and Danneberg Federal 116-1).
2000' northeast of Lone Mountain Canyon #1-44
4000' southeast of Lone Mountain Canyon 36-34
2700' southwest of Hillside 6C-1

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

Upon a successful commercial completion, all production facilities will be situated on the drilling location pad. Berra/dike or firewalls will be constructed around all storage facilities sufficient in size to contain liquid incase of rupture.

5. LOCATION AND TYPE OF WATER

Water will be acquired from the San Juan river or McElmo Creek and will be hauled using third party contract water trucks.

6. SOURCE OF CONSTRUCTION MATERIAL

The need for additional construction materials is not anticipated. In the event that additional materials are required, they will be acquired from private sources. No gravel or other related minerals from Federal land will be used in construction of roads, wellsites without prior approval from the Surface Managing Agency.

7. METHODS OF HANDLING WASTE MATERIAL

- a. The reserve pit will be designed to prevent the collection of surface runoff. The pit will be lined with a 7 mil liner, for containing drilling fluids. Prior to use, the reserve pit will be fenced on three side, the fourth side will be fenced at the time the drill rig is removed.
- b. Liquid hydrocarbons will be stored in temporary storage tanks and trucked to approved sales facilities.
- c. Garbage and other trash will be contained on location. It will be hauled to an approved disposal site or burned on location if a burning permit is obtained. Any trash on the pad will be cleaned up prior to the rig move off location.
- d. Sewage will be handled in self-contained, chemically treated portable toilets and the contents hauled off location to an authorized sanitary disposal facility.
- e. Upon completion of operations, fluids in the reserve pit will be allowed to evaporate or will be emptied. Upon drying, the pit will be backfilled and the area restored with the natural terrain.

8. ANCILLARY FACILITIES

There will be no ancillary facilities associated with this project, including camps.

9. WELL SITE LAYOUT

- a. Well Pad Layout is detailed in Attachment 4.
- b. Cut and fill requirements due to topography are detailed in Attachment 5.
- c. Reserve pit will be fenced and lined as detailed in item 7(a).
- d. Soil material will not be pushed into drainage. All disturbed soil material will be placed in an area where it can be retrieved for reclamation purposes.

10. SURFACE RECLAMATION PLANS

- a. The reserve pit will be allowed to dry prior to the commencement of backfilling work. No attempts will be made to backfill the reserve pit until the pit is free of standing water. The reserve pit will remain fenced prior to reclamation.
- b. Rat and mouse holes will be filled and compacted from bottom to top immediately upon release of the drilling rig from the location.
- c. All remaining debris will be cleared from the location. Any materials not required for production operations will be removed.
- d. Areas of the well pad which are not needed for production operations will be reshaped as provided below:
 1. Unnatural backslopes and foreslopes will be reduced as practical and returned to natural contour.
 2. Compacted areas will be plowed or ripped to a depth of 12 to 16 inches prior to reseeding.
 3. Natural soil stock piled for reclamation activity will be utilized whenever possible. Additional topsoil will be obtained as necessary to return the terrain as near as possible to its original contour.

10. SURFACE RECLAMATION PLANS (continued)

e. In the event of a dry hole, the well site and newly constructed access road will be restored to their approximate original contour. Items d 1, 2 and 3 as listed above will be adhered to. In addition:

1. Care will be taken during reshaping of the pad and access road to insure there will be no depressions that will trap water or form ponds.
2. Seed mixture will be drilled to a depth of .5 to .75 inches or broadcast and followed by a drag or packer. Hand broadcasting may occur in areas too steep for machinery. If hand broadcast, the rate below will be 150%. Unless otherwise stipulated the following seed mix will be used:

Indian Ricegrass	3 lbs per acre PLS
Galleta	2 lbs per acre PLS
Needle-N-Thread	3 lbs per acre PLS
Four Winged Saltbrush	2 lbs per acre PLS

d. Reclamation operations for the well pad are expected to require approximately 7 to 10 days and will begin when the fluids in the reserve pit are dry for backfilling. Seeding will take place between July and September. If the well is a producer, restoration of unutilized portions of the location will commence as soon as practical after the installation of production facilities, but not later than 12 months after drilling is completed.

11. SURFACE OWNERSHIP

The surface ownership at the well location and access road is Navajo Indian Reservation.

12. OTHER INFORMATION

- a. Cultural and Environmental Surveys have been conducted and were submitted under separate.
- b. The spud report will be called into the BLM - Farmington, New Mexico (505/327-5344) within 48 hours. Time and date of spud, along with BLM notification and contact, will be noted on drilling report.
- c. The BLM - Farmington, New Mexico will be notified 24 hours in advance of BOP test.
- d. All undesirable events (fire, blowouts, spills, discharges) will be reported to the BLM - Farmington, New Mexico within 24 hours (505/327-5344)

13. REPRESENTATIVE AND CERTIFICATION

Field Representative - Mr. Larry A. Chambers
Engineer
Harken Southwest Corporation
501 Airport Drive, Suite 158
Farmington, New Mexico 87401
(505) 327-5531

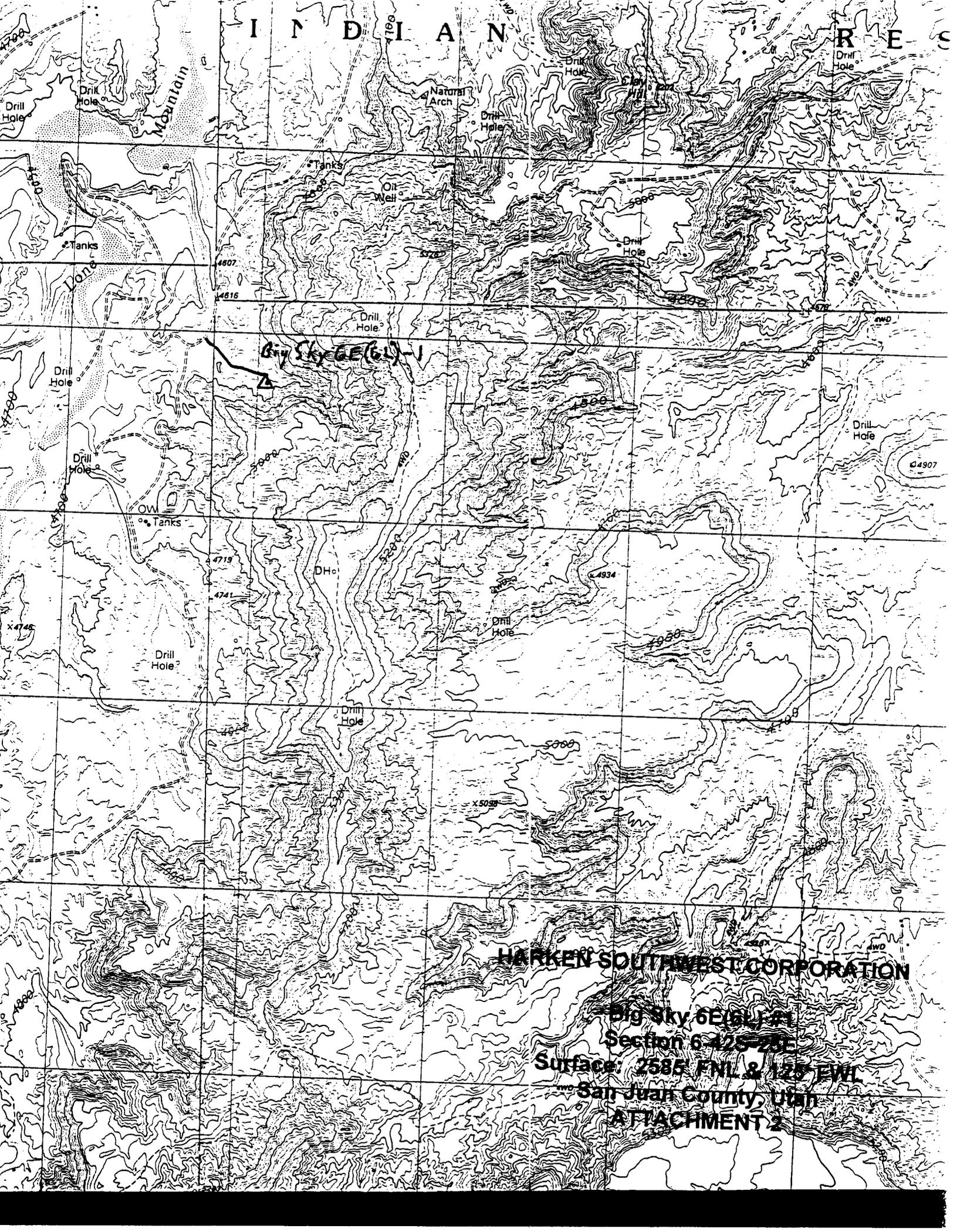
Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions which currently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and that the work associated with operations proposed here in will be performed by Harken Southwest Corporation and its contractors and subcontracts in conformity with this plan and the terms and conditions under which it is approved.



Marshall C. Watson, P.E.
Vice-President

Date: 5-2-94



I N D I A N W E L L S

Big Sky 6E(64)-1

HARKEN SOUTHWEST CORPORATION

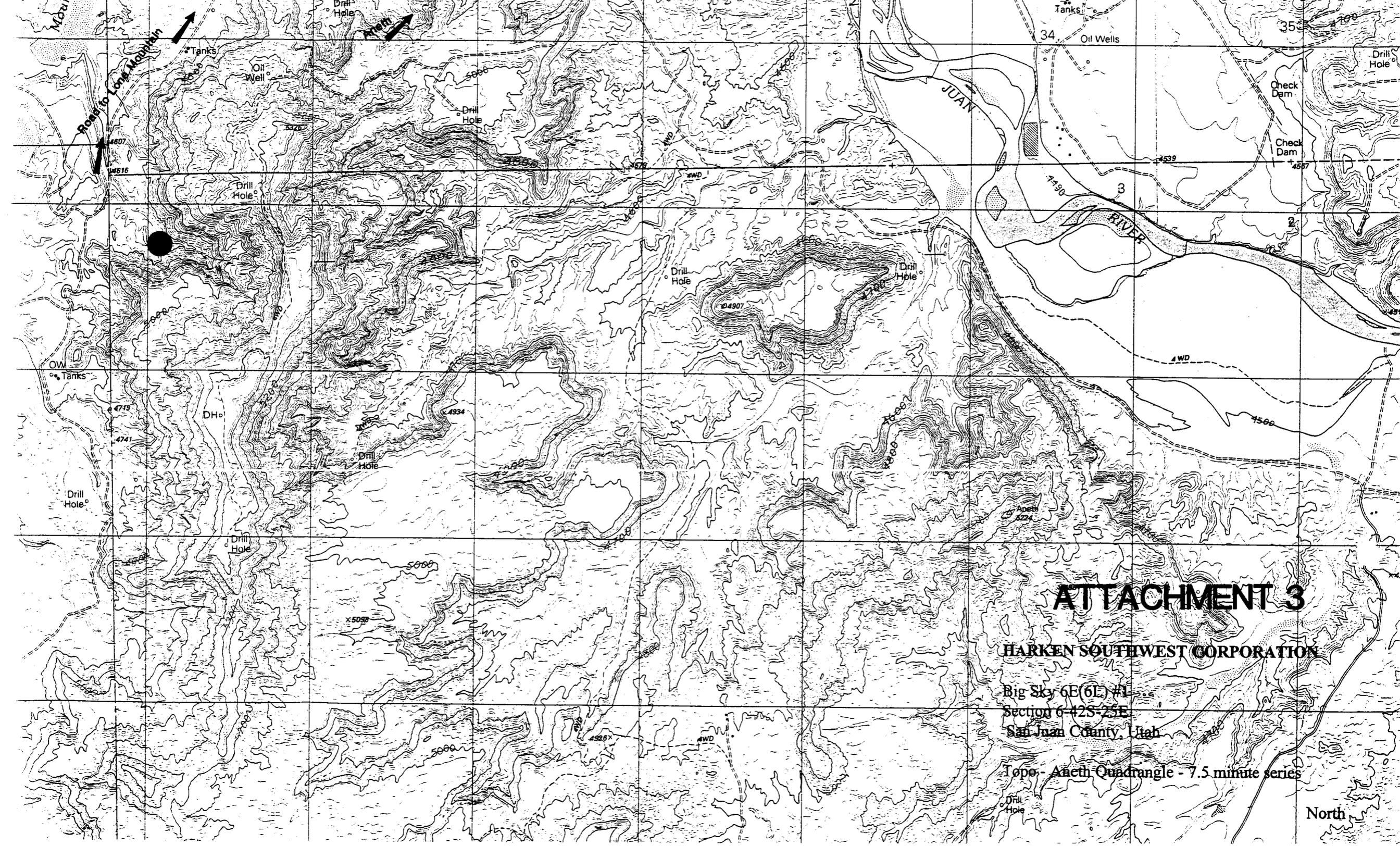
Big Sky 6E(64)-1

Section 6-125-23E

Surface: 2585 FNL & 125 EWL

San Juan County, Utah

ATTACHMENT 2



↑
Road to Long Mountain

Tanks
Oil Wells

JUAN RIVER

Check Dam
Check Dam

ATTACHMENT 3

HARKEN SOUTHWEST CORPORATION

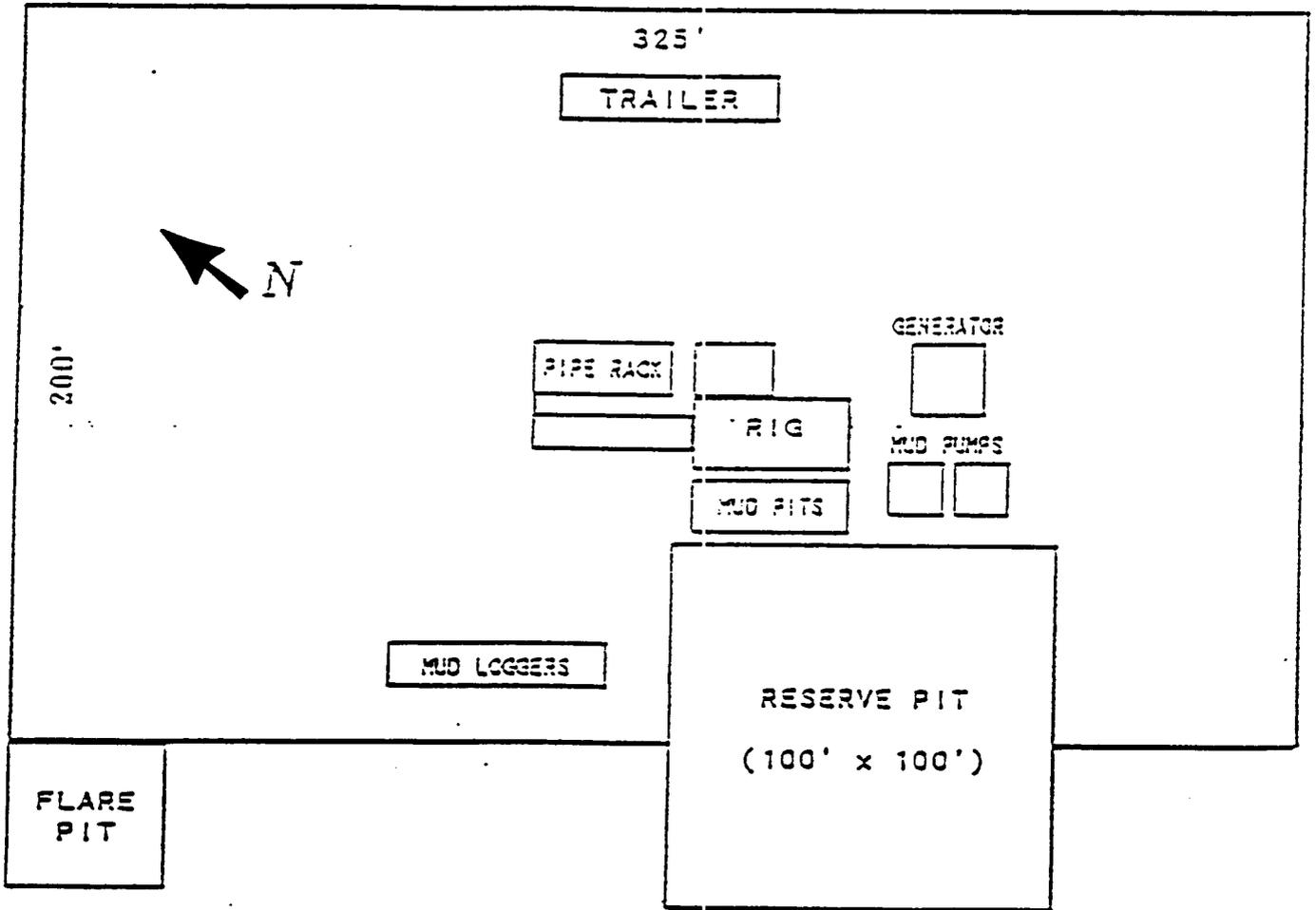
Big Sky 6E(6E) #1
Section 6-42S-25E
San Juan County, Utah

Topo - Aneth Quadrangle - 7.5 minute series

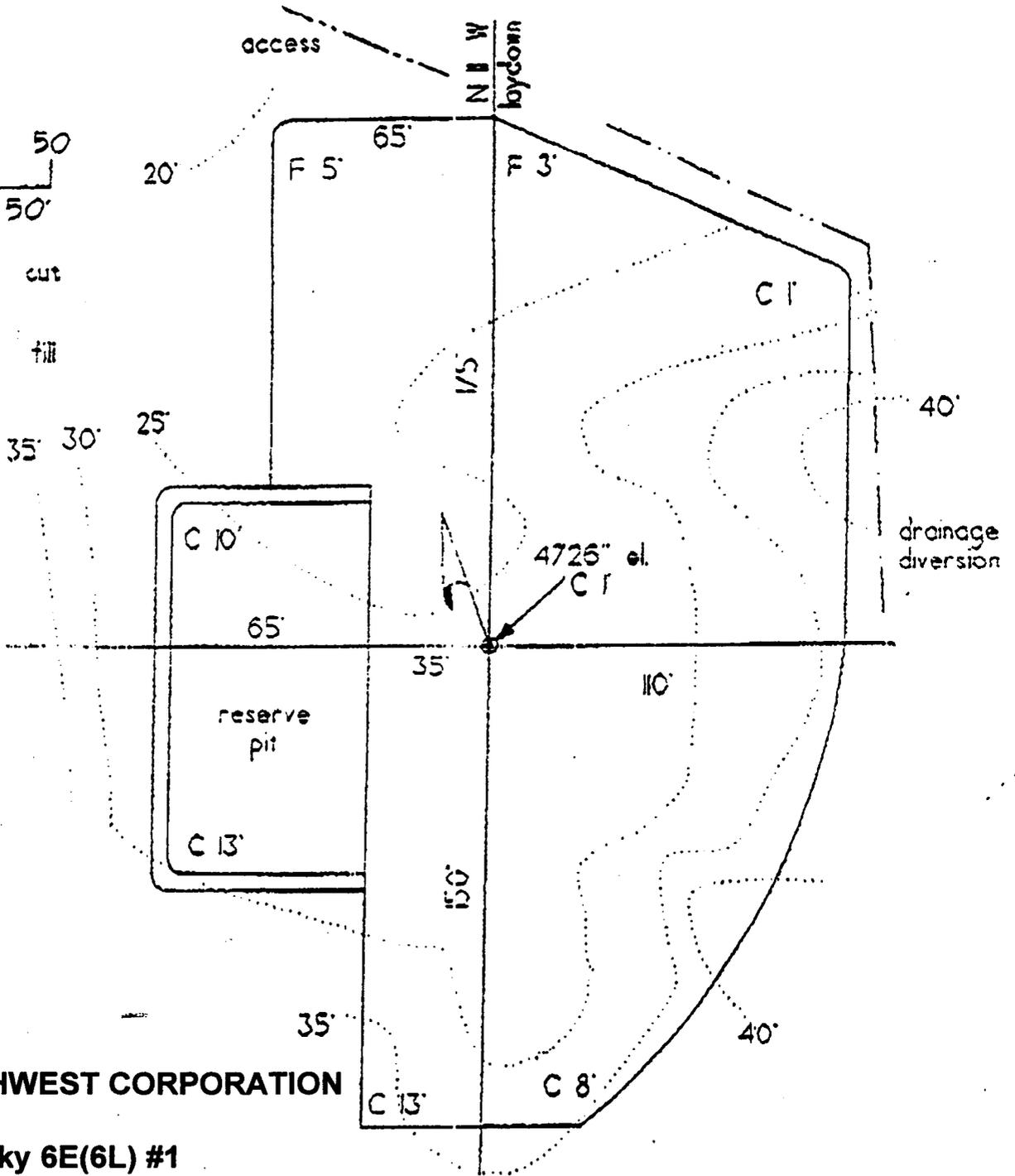
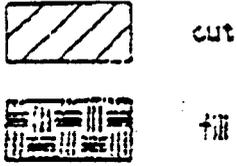
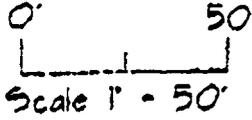
North

HARKEN SOUTHWEST CORP. ATION

Big Sky 6E(6L) #1
Section 6-42S-25E
Surface: 2585' FNL. & 125' FWL
San Juan County, Utah
ATTACHMENT 4

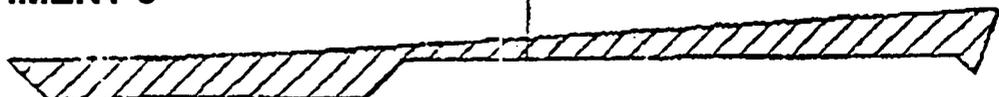


Big Sky 6E (6L) - 1
 well pad & section



HARKEN SOUTHWEST CORPORATION

Big Sky 6E(6L) #1
Section 6-42S-25E
Surface: 2585' FNL & 125' FWL
San Juan County, Utah
ATTACHMENT 5



MARKEN SOUTHWEST CORPORATION
SEC6-42S-25E

6E
slot: #1
SAN JUAN COUNTY
UTAH.

PROPOSAL LISTING

by
Baker Hughes Inteq

Your ref: INITIAL DESIGN
Our ref: prop1206
License:

Date printed: 19-Mar-94
Date created: 18-Mar-94
Last revised: 19-Mar-94

Field is centred on: n37 40 0.000, w109 15 0
Structure is centred on: n37 40 0.000, w109 15 0

Slot location is n37 40 26.644, w109 14 58.445
Slot Grid coordinates are N 374640.471, E 2651275.065
Slot local coordinates are 2695.00 N 125.00 E
Reference North is True North

Comments in wellpath

MD	TYD	Rectangular Coords.		Comment
591.00	591.00	0.00 N	0.00 E	NAYAJO
1258.00	1258.00	0.00 N	0.00 E	CHINLE
2451.00	2451.00	0.00 N	0.00 E	DECKELLY
2715.00	2715.00	0.00 N	0.00 E	ORGAN ROCK
3338.00	3338.00	0.00 N	0.00 E	CEDAR MESA
4449.86	4443.00	51.04 S	67.19 E	HERMOSA
5417.25	5357.00	241.97 S	318.53 E	UPPER ISPLAY
5518.35	5452.00	262.89 S	346.06 E	LOWER ISPLAY
5576.88	5507.00	275.00 S	362.00 E	DESERT CREEK
5771.62	5690.00	315.29 S	415.04 E	AKAH
5801.42	5718.00	321.46 S	423.15 E	TOTAL DEPTH

Casing positions in string 'A'

Top MD	Top TYD	Rectangular Coords.		Bot MD	Bot TYD	Rectangular Coords.		Casing
0.00	0.00	0.00N	0.00E	450.00	450.00	0.00N	0.00E	SURFACE

Targets associated with this wellpath

Target name	Position	T.V.D.	Local rectangular coords.	Date revised
DESERT CREEK	not specified	5507.00	275.00S 362.00E	18-Mar-94

All data is in feet unless otherwise stated
 Coordinates from slot #1 and TYD from wellhead.
 Bottom hole distance is 531.41 on azimuth 127.22 degrees from wellhead.
 Vertical section is from wellhead on azimuth 127.22 degrees.
 Declination is 12.45 degrees, Convergence is 1.38 degrees.
 Calculation uses the minimum curvature method.
 Presented by Baker Hughes Inteq

MARKEN SOUTHWEST CORPORATION
 SEC6-42S-2SE,6E
 SAN JUAN COUNTY,UTAH.

PROPOSAL LISTING Page 1
 Your ref : INITIAL DESIGN
 Last revised : 19-Mar-94

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert. Depth	RECTANGULAR COORDINATES		Dogleg Deg/100Ft	Vert Sect
0.00	0.00	127.22	0.00	0.00 N	0.00 E	0.00	0.00
500.00	0.00	127.22	500.00	0.00 N	0.00 E	0.00	0.00
591.00	0.00	127.22	591.00	0.00 N	0.00 E	0.00	0.00 NAVAJO
1000.00	0.00	127.22	1000.00	0.00 N	0.00 E	0.00	0.00
1258.00	0.00	127.22	1258.00	0.00 N	0.00 E	0.00	0.00 CHINLE
1500.00	0.00	127.22	1500.00	0.00 N	0.00 E	0.00	0.00
2000.00	0.00	127.22	2000.00	0.00 N	0.00 E	0.00	0.00
2451.00	0.00	127.22	2451.00	0.00 N	0.00 E	0.00	0.00 DECHELLEY
2500.00	0.00	127.22	2500.00	0.00 N	0.00 E	0.00	0.00
2715.00	0.00	127.22	2715.00	0.00 N	0.00 E	0.00	0.00 ORGAN ROCK
3000.00	0.00	127.22	3000.00	0.00 N	0.00 E	0.00	0.00
3338.00	0.00	127.22	3338.00	0.00 N	0.00 E	0.00	0.00 CEDAR MESA
3500.00	0.00	127.22	3500.00	0.00 N	0.00 E	0.00	0.00
3752.83	0.00	127.22	3752.83	0.00 N	0.00 E	0.00	0.00
3852.83	2.00	127.22	3852.81	1.06 S	1.39 E	2.00	1.74
3952.83	4.00	127.22	3952.67	4.22 S	5.56 E	2.00	6.98
4052.83	6.00	127.22	4052.28	9.49 S	12.50 E	2.00	15.69
4152.83	8.00	127.22	4151.54	16.86 S	22.20 E	2.00	27.88
4252.83	10.00	127.22	4250.30	26.33 S	34.66 E	2.00	43.52
4352.83	12.00	127.22	4348.46	37.87 S	49.85 E	2.00	62.60
4449.86	13.94	127.22	4443.00	51.04 S	67.19 E	2.00	84.38 HERMOSA
4452.83	14.00	127.22	4445.89	51.48 S	67.76 E	2.00	85.10
4552.83	16.00	127.22	4542.48	67.13 S	88.37 E	2.00	110.98
4652.83	18.00	127.22	4638.10	84.82 S	111.65 E	2.00	140.21
4752.83	20.00	127.22	4732.65	104.51 S	137.57 E	2.00	172.77
5000.00	20.00	127.22	4964.91	155.65 S	204.89 E	0.00	257.30
5417.25	20.00	127.22	5357.00	241.97 S	318.53 E	0.00	400.01 UPPER ISMAY
5500.00	20.00	127.22	5434.76	259.09 S	341.06 E	0.00	428.31
5518.35	20.00	127.22	5452.00	262.89 S	344.06 E	0.00	434.59 LOWER ISMAY
5576.88	20.00	127.22	5507.00	275.00 S	362.00 E	0.00	454.61 DESERT CREEK
5771.62	20.00	127.22	5690.00	315.29 S	415.04 E	0.00	521.22 AKAH
5801.42	20.00	127.22	5718.00	321.46 S	423.15 E	0.00	531.41 TOTAL DEPTH

All data is in feet unless otherwise stated
 Coordinates from slot #1 and TVD from wellhead.
 Vertical section is from wellhead on azimuth 127.22 degrees.
 Declination is 12.45 degrees, Convergence is 1.38 degrees.
 Calculation uses the minimum curvature method.
 Presented by Bakur Hughes Inteq

EXHIBIT "A"
BLOWOUT PREVENTER

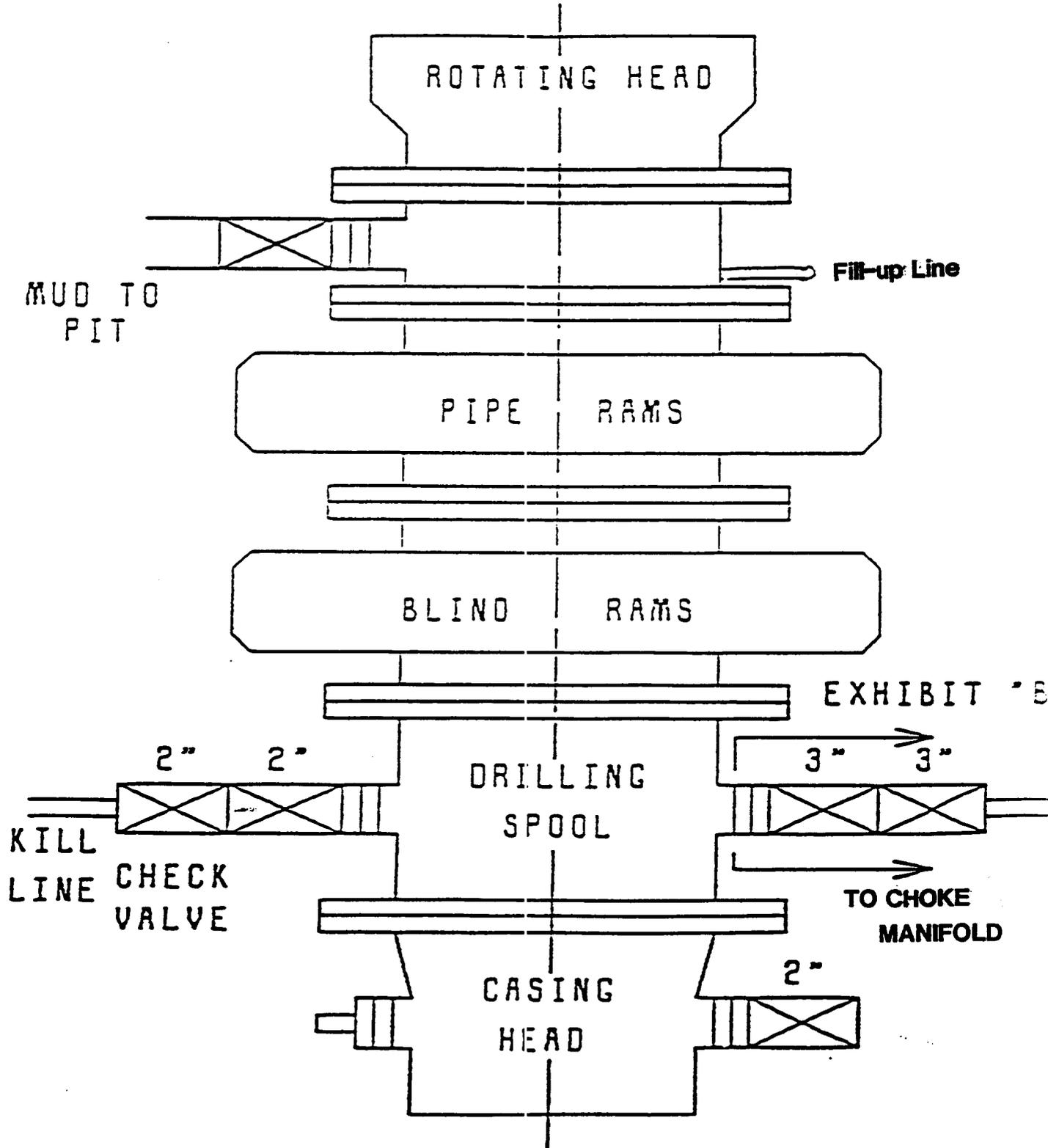
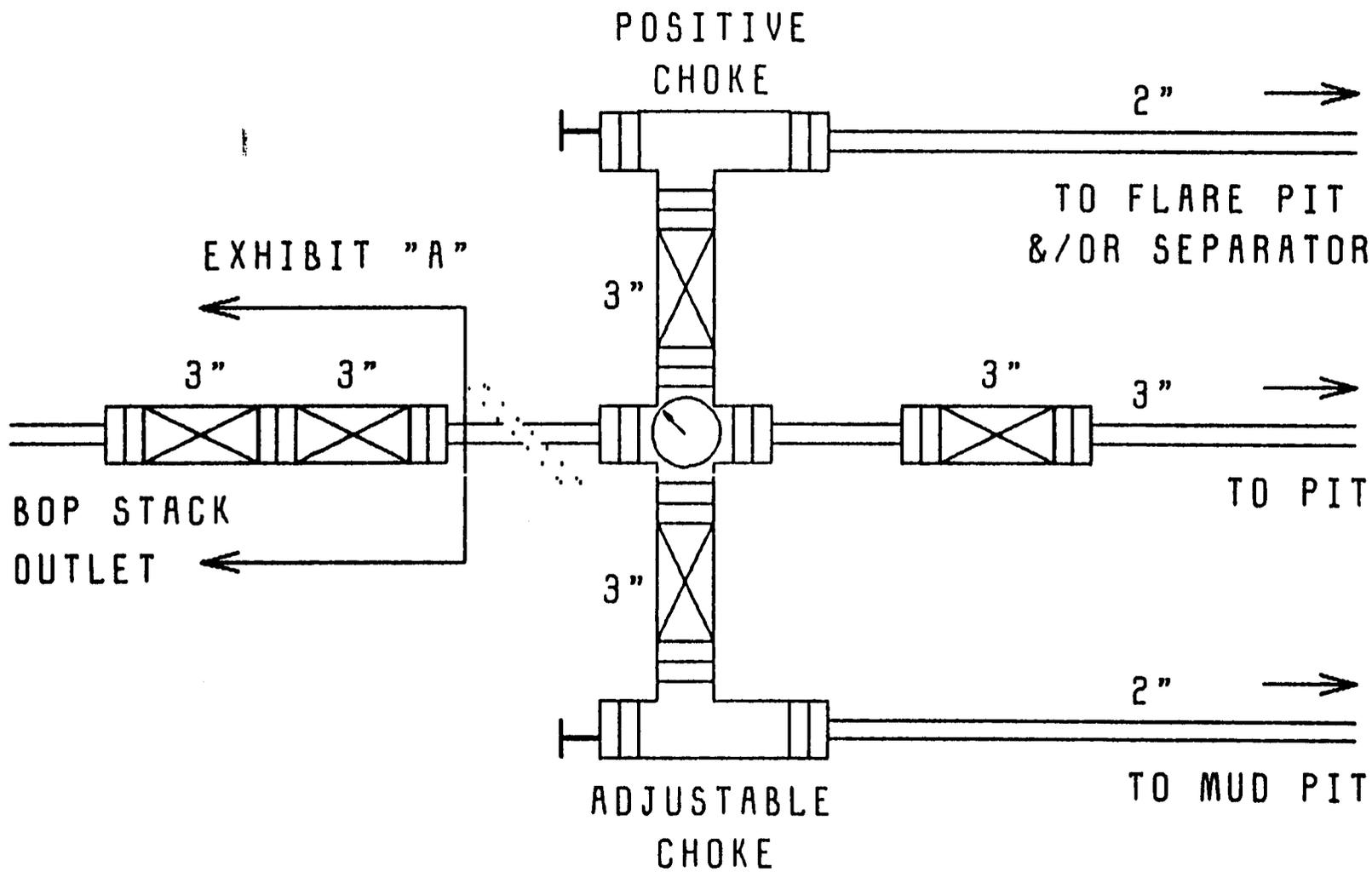


EXHIBIT "B"
CHOKE MANIFOLD



Form 3160-3
(November 1983)
(formerly 9-331C)

SUBMIT IN TRIPPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 HARKEN SOUTHWEST CORPORATION

3. ADDRESS OF OPERATOR
 P. O. Drawer 612007, Dallas, Texas-75261

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
 At surface: 2585' FNL & 125" FWL (NW/SW)
 At proposed prod. zone: 2420' FSL & 487' FWL

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 18 miles by road southeast of Montezuma Creek

19. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit (line, if any))
 125' FWL

16. NO. OF ACRES IN LEASE
 2522

17. NO. OF ACRES ASSIGNED TO THIS WELL
 80

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
 2700'

19. PROPOSED DEPTH
 5700' MD

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DE, ET, GR, etc.)
 4726' GR

22. APPROX. DATE WORK WILL START*
 June 15, 1994

5. LEASE DESIGNATION AND SERIAL NO.
 14-20-603-373 (BIA)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
 Big Sky 6E(6L)

9. WELL NO.
 #1

10. FIELD AND POOL, OR WILDCAT
 Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec 6-42S-25E

12. COUNTY OR PARISH
 San Juan

13. STATE
 UT

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24	425'	305 sx Class "B"
7-7/8"	5-1/2"	15.5	5700'	2 Stage Cementing Plan
**SEE ATTACHED 10 Point Drilling Plan				

ATTACHED:

- Ten Point Drilling Plan
- Surface Use Plan
- Detailed Drilling Plan

Attachments and Exhibits as referenced in proposed plans

RECEIVED
 PLM
 94 MAY 13 PM 2:43
 OTO

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout prevention program, if any.

Rachel Montgomery R. Montgomery Production Administrator 5/2/94
 (This space for Federal (or) State office use)

PERMIT NO. _____ APPROVAL DATE: _____

APPROVED BY _____ TITLE _____

APPROVED
AS AMENDED

OPERATOR

AUG 18 1994

*See Instructions On Reverse Side

DISTRICT MANAGER

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.
14-20-603-373 (BIA)

6. If Indian, Allottee or Tribe Name
NAVAJO

7. If Unit or CA, Agreement Designation

8. Well Name and No.
BIG SKY 6E (6L) #1

9. API Well No.

10. Field and Pool, or Exploratory Area
WILDCAT

11. County or Parish, State
SAN JUAN, UT

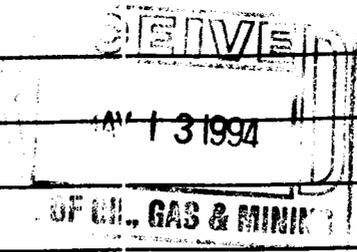
SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Harken Southwest Corporation (817) 695-4900

3. Address and Telephone No.
P. O. Drawer 612007, Dallas, TX 75261

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
 Surface: 2585' FNL & 125' FWL (NW/SW) Sec. 6-42S-25E
 BHL: 2420' FSL & 487' FWL - Sec. 6-42S-25E



12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Subsequent to the filing of the original APD on the subject well, please note the following bond information:

Bond No. B03571 applies to operations within the State of Utah in favor of the United States Department of the Interior, Bureau of Land Management
 Additionally, BIA 14-20-603-373 has a Certificated of Deposit (#8015) held at Western Bank, Farmington, New Mexico as a performance bond for the lease.

All bonding under the name of Chuska Energy Company is currently being updated to Harken Southwest Corporation pursuant to the name change as set out in the Amendment to the Articles of Incorporation dated September, 1993.

In addition, please consider all future filings regarding this proposed well "CONFIDENTIAL"

Should any questions arise, please contact the undersigned.

14. I hereby certify that the foregoing is true and correct

Signed: *Rachelle Montgomery* Title: Production Administrator Date: 5/10/94

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

August 24, 1994

Harken Southwest Corporation
P.O. Drawer 612007
Dallas, Texas 75261

Re: Big Sky 6E(6L) #1 Well, Surface Location 2585' FNL, 125' FWL, Bottom Hole Location 2420' FSL, 487' FWL, NW SW, Sec. 6, T. 42 S., R. 25 E., San Juan County, Utah

Gentlemen:

Pursuant to Utah Admin. R. 649-3-3, Exception to Location and Siting of Wells and Utah Admin. R. 649-3-4, Permitting of Wells to be Drilled, Deepened or Plugged-Back, approval to horizontally drill the referenced well is hereby granted.

In addition, the following specific actions are necessary to fully comply with this approval:

1. In accordance with Utah Admin. R. 649-3-11, Directional Drilling, submittal of a complete angular deviation and directional survey report is required.
2. Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules.
3. Notification to the Division within 24 hours after drilling operations commence.
4. Submittal of Entity Action Form, Form 6, within five working days following commencement of drilling operations and whenever a change in operations or interests necessitates an entity status change.
5. Submittal of the Report of Water Encountered During Drilling, Form 7.
6. Prompt notification prior to commencing operations, if necessary, to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or K. Michael Hebertson, Reclamation Specialist, (Home) (801)269-9212.



Page 2
Harken Southwest Corporation
Big Sky 6E(6L) #1 Well
August 24, 1994

6. Compliance with the requirements of Utah Admin. R. 649-3-20, Gas Flaring or Venting, if the well is completed for production.

This approval shall expire one year after date of issuance unless substantial and continuous operation is underway or a request for an extension is made prior to the approval expiration date. The API number assigned to this well is 43-037-31714.

Sincerely,



R.J. Firth
Associate Director

ldc

Enclosures

cc: San Juan County Assessor
Bureau of Land Management, Moab District Office

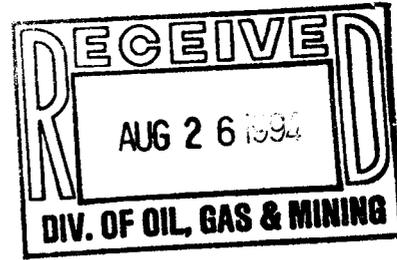
WOI1



HARKEN SOUTHWEST CORPORATION

(formerly Chuska Energy Company)

August 23, 1994



State of Utah
Division of Oil, Gas & Mining
355 N. Temple, Suite 350
3 Triad Center
Salt Lake City, UT 84180

RE: Application for Exception Location
Big Sky 6E (6L) - Section 6-42S-25E
Surface: 2585' FNL & 125' FWL
BHL: 2420' FSL & 487' FWL
San Juan County, UT

43-037-31714

Gentlemen:

In accordance with rule 649-3-3 of the Oil and Gas Conservation General Rules, Harken Southwest Corporation request an administrative of approval of the referenced bottom hole location based on topographic and geologic conditions.

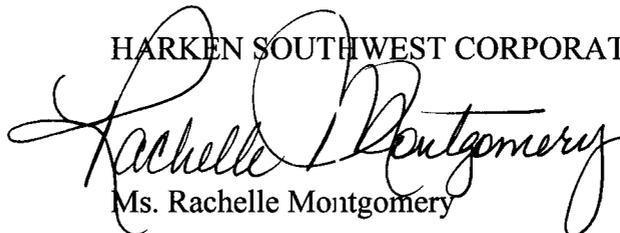
Administrative approval of this request is based on the following:

- 1). Topographical concerns - Harken is unable to locate in the wellbore in compliance with State spacing and maintain the targeted zone.
- 2). Geological/Geophysical requirements - based on the interpretation of seismic data the geological structure for hydrocarbon production is not developed outside of the proposed location.
- 3). Ownership of the mineral rights within a 460' radius of the proposed wellbore is common ownership. Therefore, does not require written consent of offset owners.

Should any additional questions arise, please feel free to contact the undersigned at the letterhead address.

Very truly yours,

HARKEN SOUTHWEST CORPORATION


Ms. Rachelle Montgomery

CONFIDENTIAL

1994

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
DIVISION OF OIL, GAS & MINING
SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir,
Use "APPLICATION FOR PERMIT --" for such proposals

SUBMIT IN TRIPPLICATE

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.
14-20-603-373 (BIA)

6. If Indian, Allottee or Tribe Name
Navajo

7. If Unit or CA. Agreement Designation
N/A

8. Well Name and No.
Big Sky 6E(6L) #1

9. API Well No.
43-037-31714

10. Field and Pool, or Exploratory Area
900 Wildcat

11. County or Parish, State
San Juan, Utah

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Harken Southwest Corporation

3. Address and Telephone No.
P.O. Drawer 612007, Dallas, TX 75261 214/753-6900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
S.L. 2585' FNL & 125' FWL (NW/SW)

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Revise BHL</u> (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection

13. Describe Proposed or Completed Operations (Clearly state all pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Harken Southwest plans to move the target location (bottom hole) on the subject directional well approximately 160' northeast. The surface location and critical point tops will remain the same. A new directional plan including a vertical and horizontal view is attached.

Anticipated spud on the subject well is Tuesday, December 27, 1994.

Should additional information be required or questions arise, please contact the undersigned.

CC: State of Utah

I hereby certify that the foregoing is true and correct

Signed Michelle Montgomery Title Production Administrator Date 12/19/94

(This space for Federal or State office use)

Approved by _____ Title _____

Conditions of approval, if any:

**Accepted by the
Utah Division of
Oil, Gas and Mining**

FOR RECORD ONLY

Title 18 U.S.C. Section 1001, makes 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.

*See Instruction on Reverse Side

HALLIBURTON ENERGY SERVICES - Drilling Systems

Page 1

Proposal Report

Date: 12/9/94

Time: 9:17 am

Wellpath ID: PROPOSAL

Last Revision: 12/9/94

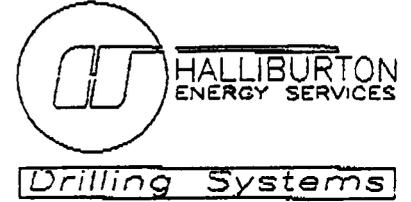
Calculated using the Minimum Curvature Method
 Computed using WIN-CADDS REV2.1.A
 Vertical Section Plane: 108.47 deg.

Survey Reference: WELLHEAD
 Vertical Section Reference: WELLHEAD
 Closure Reference: WELLHEAD
 TVD Reference: WELLHEAD

HARKEN SOUTHWEST CORPORATION
 BIG SKY 6E(6L) #1
 SEC 6-T42S-R25E
 SAN JUAN CO., UTAH

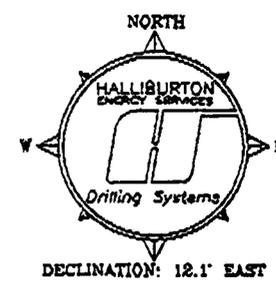
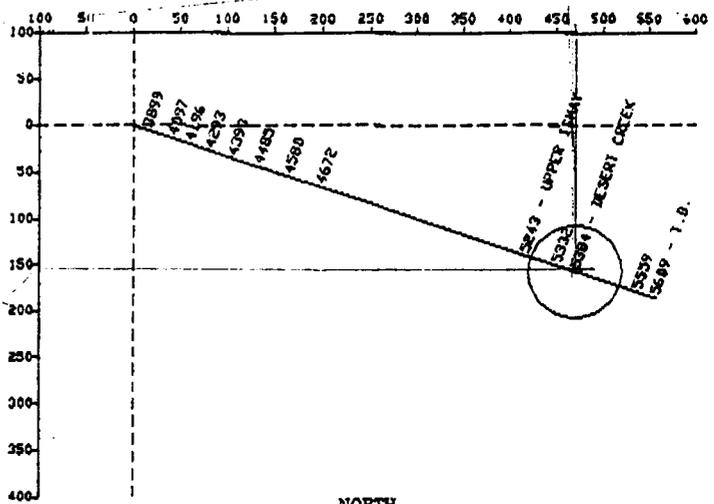
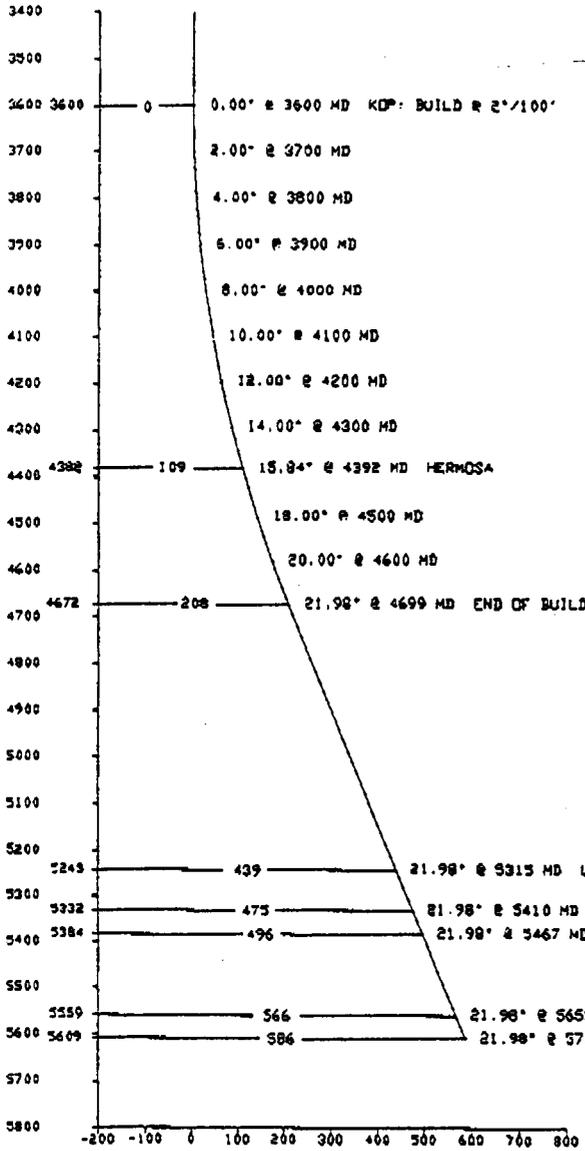
Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)		Closure Dist. (ft)	Dir. (deg.)	Walk Rate (dg/100ft)	Build Rate (dg/100ft)	DLS (dg/100ft)
TIE IN												
0.00	0.00	0.00	0.00	0.00	0.00	0.00N	0.00E	0.00@	0.00	0.00	0.00	0.00
NAVAJO												
902.00	0.00	0.00	902.00	902.00	0.00	0.00N	0.00E	0.00@	0.00	0.00	0.00	0.00
CHINLE												
1237.00	0.00	0.00	335.00	1237.00	0.00	0.00N	0.00E	0.00@	0.00	0.00	0.00	0.00
DeCHELLY												
2427.00	0.00	0.00	1190.00	2427.00	0.00	0.00N	0.00E	0.00@	0.00	0.00	0.00	0.00
ORGAN ROCK												
2689.00	0.00	0.00	262.00	2689.00	0.00	0.00N	0.00E	0.00@	0.00	0.00	0.00	0.00
CEDAR MESA												
3312.00	0.00	0.00	623.00	3312.00	0.00	0.00N	0.00E	0.00@	0.00	0.00	0.00	0.00
KOP / START OF BUILD @ 2.00 deg/100 ft												
3600.00	0.00	0.00	288.00	3600.00	0.00	0.00N	0.00E	0.00@	0.00	0.00	0.00	0.00
3708.00	2.00	108.47	100.00	3699.98	1.75	0.55 S	1.66 E	1.75@	108.47	0.00	2.00	2.00
3800.00	4.00	108.47	100.00	3799.84	6.98	2.21 S	6.62 E	6.98@	108.47	0.00	2.00	2.00
3906.00	6.00	108.47	100.00	3899.45	15.69	4.97 S	14.89 E	15.69@	108.47	0.00	2.00	2.00
4000.00	8.00	108.47	100.00	3998.70	27.88	8.83 S	26.44 E	27.88@	108.47	0.00	2.00	2.00
4100.00	10.00	108.47	100.00	4097.47	43.52	13.79 S	41.28 E	43.52@	108.47	0.00	2.00	2.00
4206.00	12.00	108.47	100.00	4195.62	62.60	19.83 S	59.38 E	62.60@	108.47	0.00	2.00	2.00
4300.00	14.00	108.47	100.00	4293.06	85.10	26.96 S	80.71 E	85.10@	108.47	0.00	2.00	2.00
HERMOSA												
4392.05	15.84	108.47	92.05	4382.00	108.80	34.47 S	103.19 E	108.80@	108.47	0.00	2.00	2.00
4400.00	16.00	108.47	7.95	4389.64	110.98	35.16 S	105.26 E	110.98@	108.47	0.00	2.00	2.00
4500.00	18.00	108.47	100.00	4485.27	140.21	44.42 S	132.99 E	140.21@	108.47	0.00	2.00	2.00
4600.00	20.00	108.47	100.00	4579.82	172.77	54.74 S	163.87 E	172.77@	108.47	0.00	2.00	2.00
END OF BUILD												
4699.07	21.98	108.47	99.07	4672.31	208.25	65.98 S	197.53 E	208.25@	108.47	0.00	2.00	2.00
UPPER ISMAY												
5314.50	21.98	108.47	615.43	5243.00	438.61	138.97 S	416.02 E	438.61@	108.47	0.00	0.00	0.00
LOWER ISMAY												
5410.48	21.98	108.47	95.98	5332.00	474.54	150.35 S	450.09 E	474.54@	108.47	0.00	0.00	0.00
DESERT CREEK / TARGET												
5466.56	21.98	108.47	56.08	5384.00	495.53	157.00 S	470.00 E	495.53@	108.47	0.00	0.00	0.00
AKAH												
5655.27	21.98	108.47	188.72	5559.00	566.17	179.38 S	537.00 E	566.17@	108.47	0.00	0.00	0.00
5702.68	21.98	108.47	47.41	5602.96	583.91	185.00 S	553.83 E	583.91@	108.47	0.00	0.00	0.00
TOTAL DEPTH												
5709.19	21.98	108.47	6.51	5609.00	586.35	185.78 S	556.14 E	586.35@	108.47	0.00	0.00	0.00

HARKEN SOUTHWEST CORPORATION
 BIG SKY 6E(6L) #1
 SEC 6-T42S-R25E
 SAN JUAN CO., UTAH



VERTICAL VIEW
 SCALE 100 ft. / DIVISION
 TVD REF: WELLHEAD
 VERTICAL SECTION REF: WELLHEAD

HORIZONTAL VIEW
 SCALE 50 ft. / DIVISION
 SURVEY REF: WELLHEAD



VERTICAL SECTION PLANE: 108.47

CRITICAL POINT DATA						
MD	Incl.	AZI.	TVD	N/S	E/W	
TIE IN	0	0.00°	108.47°	0	0 N	0 E
NAVAJO	903	0.00°	108.47°	903	0 N	0 E
CHINLE	1237	0.00°	108.47°	1237	0 N	0 E
DOUGLASS	2427	0.00°	108.47°	2427	0 N	0 E
ORCAN MESA	3689	0.00°	108.47°	3689	0 N	0 E
KEGAR MESA	3312	0.00°	108.47°	3312	0 N	0 E
KOP: BUILD @ 2°/100'	3600	0.00°	108.47°	3600	0 N	0 E
HERMOSA	4392	15.84°	108.47°	4392	31 N	103 E
END OF BUILD	4699	21.98°	108.47°	4672	66 N	198 E
UPPER ISHAY	5315	21.98°	108.47°	5243	139 N	416 E
LOWER ISHAY	5410	21.98°	108.47°	5332	130 N	480 E
DESERT CREEK	5467	21.98°	108.47°	5384	157 N	470 E
PRIMARY TARGET						
AKAH	5655	21.98°	108.47°	5559	179 N	537 E
TOTAL DEPTH	5709	21.98°	108.47°	5609	186 N	556 E

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir,
Use "APPLICATION FOR PERMIT --" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	8. Well Name and No. Big Sky 6E(6L)
2. Name of Operator Harken Southwest Corporation	9. API Well No. 43-037-31714
3. Address and Telephone No. P. O. Drawer 612007, Dallas, TX 75261 (214) 753-6900	10. Field and Pool, or Exploratory Area Wildcat
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Surface: 2585' FNL & 125' FWL (NW/SW) 6-42S-25E	11. County or Parish, State San Juan County, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other <u>Status/Spud</u> (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection

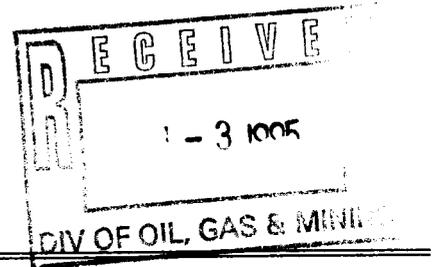
13. Describe Proposed or Completed Operations (Clearly state all pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The subject well spud 12/28/94 @ 5:30pm.

Drilled to 450'. Set 8-5/8" surface csg set @ 448'. Circ cmt to surface. WOC.

PRESENT OPERATIONS: Prep to test BOP's.

CC: State of Utah
Navajo Nation



14. I hereby certify that the foregoing is true and correct
Signed [Signature] Title Production Administrator Date 12/30/91

(This space for Federal or State office use)
Approved by _____ Title _____ Date _____

Conditions of approval, if any:

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: Harken South West Corp.

WELL NAME: Big Sky 6E (6L)

API NO. 43-0 37-31714

Section 6 Township 42S Range 25E County San Juan

Drilling Contractor United

Rig # 3

SPUDDED: Date 12/28/94

Time 5:30 PM

How Rotary

Drilling will commence _____

Reported by Sunday Notice

Telephone # _____

Date 1/2/95 SIGNED Jim J.

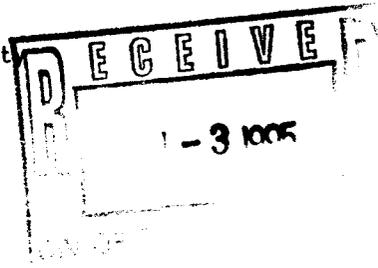
OPERATOR Harken Southwest Corporation OPERATOR ACC' N. 9290
ADDRESS P. O. Box 612007,
Dallas, TX 75261

ENTITY ACTION FORM - FORM 6

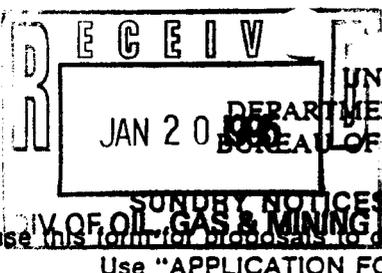
ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	11722	43-037-31714	Big Sky 6E (6L)	NW	6	42S	25E	San Juan	12/28/94	12/28/94
WELL 1 COMMENTS: <i>Entity added 1-5-95. Lec</i>											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

- ACTION CODES (See instructions on back of form)
- A - Establish new entity for new well (single well only)
 - B - Add new well to existing entity (group or unit well)
 - C - Re-assign well from one existing entity to another existing entity
 - D - Re-assign well from one existing entity to a new entity
 - E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.



Rachelle Montgomery 12/30/94
Signature
Production Administrator
Title
Date
Phone No. (214) 753-6900



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONFIDENTIAL

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS
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Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.
14-20-603-373 (BIA)

6. If Indian, Allottee or Tribe Name
Navajo

7. If Unit or CA, Agreement Designation
N/A

8. Well Name and No.
Big Sky 6E (6L) #1

9. API Well No.
43-037-31714

10. Field and Pool, or Exploratory Area
Wildcat

11. County or Parish, State
San Juan Co., UT

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Harken Southwest Corporation

3. Address and Telephone No.
P. O. Drawer 612007, Dallas, TX 75261 (214) 753-6900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Surface: 2585' FNL & 125' FWL (NW/SW)
Section 6-42S-25E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Status Update</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion or Completion or Recompletion Report and Log form)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Attached please find the chronological activity on the subject well.

Production casing of 138 jts of 5-1/2" 15.5#, K-55, 8 rd, LT&C was stage cemented as outlined on 1/17/95. The rig was released on 1-16-95 @ 2400 hrs.

Completion procedures will be submitted for approval, since they were not included in the APD. In addition, a cement bond log will be run at the appropriate time.

PLEASE CONSIDER THIS SUBMITTAL **** CONFIDENTIAL ****

CC: State of Utah ✓

14. I hereby certify that the foregoing is true and correct

Signed Sachelle Montgomery Title Production Administrator Date 1/17/95

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes 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.

*See Instruction on Reverse Side

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BIG SKY 6E (6L)
Sec 6-42S-25E
Surface: 2585' FNL & 125' FWL (NW/SW)
San Juan County, Utah

API # 43-037-31714
United Rig #3
8-5/8" @ 448'
"TIGHT HOLE"

12/29/94 Spud 12/28/94 @ 5:30 pm. Drilled 450'. Set 8-5/8" @ 448' w/305 sx Class "G".
Cement to surface.

12/30/94 WOC. Prep to test BOP's

12/31/94 TD 450' (0), Day 3 - Attempt to press test BOP, blind rams and piperams failed to
test. WO new ram rubbers (6 hrs), press test kelly cock choke manifold and lines,
2000 psi/OK. Install new rubbers - failed to test. WO new BOP. CWC \$62,380.

01/01/95 TD 450' (0'), Day 4 - WO new BOP (24 hrs).

01/02/95 TD 1350' (900') Day 5 - NU BOP, press test 2000 psi/30 minutes - OK. Drl plug
& cmt. Drl ahead. Surveys @ 905' - 2 3/4", 1308' - 3 3/4".

01/03/95 TD 2207' (857'), Day 6 - Drlg ahead. Crown sheave split, string back to 6 lines
(7.5 hrs). Drlg ahead. Surveys @ 1617' - 3", 2114' - 3/4".

01/04/95 TD 2456' (249'), Day 7 - Drl to 2456'. Work tight hole, TOH w/9 stds. Circ, TIH
w/7 stds. Attempt to CO to btm, pumped sweeps, couldn't get past 2050'. Check
bit and DC's, clean mud tank. Mix mud, gel & bar; Vis 40, MW 9.5, displ wtr in
hole w/mud, clean out 2141-2362'.

01/05/95 TD 3016' (560'), Day 8 - CO to btm (2456'). Drl ahead. Survey @ 2643' - 1/2".
Circ, LD DP to repair rig (sheave).

01/06/95 TD 3016' (0), Day 9 - Down 24 hrs - rig repair.

01/07/95 TD 3195' (179'), Day 10 - Rig repair (19 hrs). Drl ahead. Survey @ 3140' - 1/2".
NOTE: Proposed KOP 3600'

01/08/95 TD 3600' (405'), Day 11- MW 9.4, FV 42, Drl ahead. TOH, strap out, no corr.
PU mud motor & monel DC. WO pump clutch parts (4 hrs).

01/09/95 TD 3741' (141'), Day 12 - MW 9.2, FV 37, WO clutch parts/install clutch (Rig
repair 11-1/4 hrs). Calibrate mud motor & sensor. TIH taking MWD surveys.
Circ, ck tools. Drlg/sliding.

01/10/95 TD 4200' (459'), Day 13 - MW 9.2, PV 5, YP 7, WL 18, Drlg/sliding/surveys.

01/11/95 TD 4666' (466'), Day 14 - MW 9.3, PV 5, YP 7, WL 28, Lith: shale/lime
Drlg/sliding/rotating/surveys.

01/12/95 TD 4960' (294'), Day 15 - MW 9.3, PV 8, YP 9, WL 16.4; Drlg/rotating/sliding.
Circ, TOH, ck tools and change bit. TIH, 5' of fill. Drlg/rotating/sliding.

01/13/95 TD 5354' (394'), Day 16 - MW 9.4, PV 8, YP 6, WL 18.4; Drlg/rotating/sliding.

01/14/95 TD 5710' (356'), Day 17 - MW 9.5, PV 16, YP 14, WL 10.8; Drlg/rotating/
sliding/surveys. Circ, short trip, 32 stds.

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BIG SKY 6E (6L)
Sec 6-42S-25E
Surface: 2585' FNL & 125' FWL (NW/SW)
San Juan County, Utah
PAGE 2 of 2

CONFIDENTIAL

API # 43-037-31714
United Rig #3
8-5/8" @ 448'
"TIGHT HOLE"

- 01/15/95 TD 5710' (0'), Day 18 - MW 9.4, PV 21, YP 26, WL 12.8; short trip, circ, TOH. LD Direction tools, RU Halliburton, attempt to log, log stuck @ 5300'. Tight 5300' - 4200', tight (dragging) @ 1500'. TIH. Plugged bit, attempted to unplug. TOH (wet). Unplug bit, TIH. Circ & cond mud/hole.
- 01/16/95 TD 5710' (0'), Day 19 - MW 9.4, PV 11, YP 8, WL 9.6; Cir & cond mud/hole. TOH, RU Halliburton, run GR/DLLT/SDL/DSN/ML, RD Halliburton. TIH, circ, WO csg, unload, strap. LD DP.
- 01/17/95 TD 5710' (0'), Day 20 - LD DP & DC's. RU csg crew. Run 138 jts, 5-1/2", 15.5#, K-55, 8 rd, LT&C csg set @ 5708'. FC @ 5663', Stage Collar @ 4498'. RU Halliburton, circ. *Cmt 1st stage*, 60sx Class "B" w/1/4 #/sx Flocele, 5#/sx Gilsonite, followed by 130 sx Class B Premium w/1/4#/sx Flocele, 5#/sx Gilsonite, 3% Halad 344, 1.18 ft₃/15.6 ppg, bumped plug 1340#, 4 bbl to surf. Dropped bomb opened DVT, circ for 2nd stage. *Cmt 2nd stage* w/490sx Std Class B cmt w/1/4#/sx Flocele, 5#/sx Gilsonite, yield 1.88 ft₃, 12.4 ppg, followed by 100 sx Class B Premium w/1/4#/sx Flocele, yield 1.18 ft₃, 15.6 ppg, displ w/108 bbl water. Land csg on slips, cut off csg, ND BOP's, clean mud tank. **RIG RELEASED @ 2400 hrs, 1-16-95.**

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FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

SUNDRY NOTICES AND REPORTS ON WELLS

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SUBMIT IN TRIPLICATE

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	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Completion</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Attached please find the completion procedures for the subject well.

The well reached TD on 1-16-95 and a complete chronological report was submitted 1-17-95.

Should any questions arise please contact the undersigned or Mr. Marshall Watson at the above address/telephone number.

***** PLEASE CONSIDER THIS SUBMITTAL - CONFIDENTIAL - *****

14. I hereby certify that the foregoing is true and correct

Signed Rachelle Montgomery Production Administrator Date 1/23/95

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes 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.

*See Instruction on Reverse Side

Proposed Operations: Complete as new Desert Creek Producer and obtain pressure rate data from 4 zones individually

1. Hold safety meeting and review procedures w/rig crew.
2. MIRU completion rig. Rig to include reversing and circulation system.
3. NU BOP. Pressure test to 1,500 psig using rig pump.
4. PU 4-7/8" bit, 4 x 3-1/2" drill collars and 2-7/8" tubing. RIH to DV collar at +/-4498 MD(KB).
5. Close tubing rams and pressure test casing above DV collar to 1,500 psig for 15 minutes.
6. Drill out DV collar using fresh water as circulating fluid.
7. Continue RIH and clean out to float collar at +/-5663' (MD)KB.
8. Close tubing rams and pressure test casing to 1,500 psig for 15 minutes.
9. Circulate hole clean with fresh water. Continue until returns are free of cement.
10. POH with completion string.
11. PU 5-1/2" casing scraper. RIH with 4-7/8" bit, scraper, 4 x 3-1/2 drill collars and 2-7/8" tubing to float collar at +/- 5663' KB. Circulate hole clean and POH with completion string.
12. LD bit, casing scraper, and collars.
13. RU HLS wireline and run CBL/VDL/CCL/GR from PBTD to +/-5200' MD (KB) (approximately 100' above the Upper Ismay) with 0 psig on CSG. Correlate bond log to referenced log (HLS/SDL/DSN/GR Repeat Section dated 1/14/95). Pressure up to 1000 psi on CSG. GIH to PBTD and run CBL/VDL/CCL/GR to surface. Fax CBL/CCL/GR log to Dallas office and wait on approval prior to proceeding.

NOTE: All flow from the well will be into temporary frac tanks. Under no circumstances will fluids flowing from the well be produced into the reserve pit.

14. RU to perforate. Note that GR/CCL is on depth with referenced log (HLS **Repeat Section** SDL/DSN/GR dated 1/14/95). Using 4" hollow carrier casing gun, perforate at 4 SPF w/90 degree phasing/0.45" diameter (perforations) the following intervals from bottom to top:

ZONE	INTERVAL	LENGTH	NO. OF SHOTS	FEET OF POROSITY	ACID VOLUME @ 150 G/FT
4	5498-5506	8'	33	10	1500
4	5511-5514	3'	13	1.5	225
3	5528-5531	3'	13	2	300
3	5535-5537	2'	9	2	300
3	5543-5548	5'	21	5	750
2	5556-5564	8'	33	8	1200
2	5568-5570	2'	9	3	450
1	5590-5596	6'	25	7	1050
TOTALS		37	156	38.5	5775

NOTE: Report fluid level drop to Dallas office for orders to RU and swab for flow test (see step 23).

15. PU tandem Microsmart Electronic Pressure Gauge bombs (1.25" OD) housed in 2-7/8" x 14' perforated bull plugged sub, RBP, retrieving head, tandem electronic pressure gauges housed in 2-7/8" x 14' perforated sub with pin collar, 2.205 (or as required) SN, collar locator, PPI packer (1.8" ID) with 10 foot spacing between elements, 2-7/8" x 4' PU sub, 1 jt. 2-7/8" tbg, 2-7/8" SN (2.205 ID) and RIH on 2-7/8" tubing to 5630' MD (KB) and set RBP. Reference attached completion assembly diagram.
16. PU to 5610' MD (KB) and set packer and pressure test elements to 1,500 psig. Unseat packer and PU to 5588'.

17. Spot heated 15% HCl NEA to bottom of tubing. A total of 5775 gal (150 gal/ft) of acid will be used for the Matrix acid job as follows at pump rates and pressures of 1/2 BPM and 1,000-2,500 psi:

SETTING DEPTH, MD (KB)	VOL ACID, GAL.
5588-5598	1050
5566-5576	450
5555-5565	1200
5540-5550	750
5532-5542	300
5523-5533	300
5508-5518	225
5497-5507	1500
	5775 GALS

Tbg. capacity to 5598 = 32.4 BBLs (1361 gal.)

18. After acid set packer @ 5450 and pull standing valve. Swab well back until cleaned up and flow test through test separator to obtain fluid and gas flow rates and pressures. Report data to Dallas office and will advise to proceed.

ZONE #1: Lower Desert Creek 5589-⁹/~~5~~ (Dolomitized Mound Zone equivalent to LS zone in SW Aneth Area wells)

19. GIH w/packer and set at 5580. Swab well back and flow test through test separator to obtain fluid and gas rate and pressures. Report data to Dallas, will advise on SI.
20. After flow pressure test of Zone #1 is completed, retrieve RBP at 5630' MD (KB) and PU and set at 5586' MD (KB).

ZONE #2: Desert Creek: (5555-5570)

21. PU packer to 5550' KB, swab well back until cleaned up and flow test through test separator to obtain fluid and gas flow rates and pressures. Report data to Dallas office and will advise on SI time.
22. After flow test of Zone #2 is completed, retrieve RBP at 5586' MD (KB) and PU and set at 5552' KB.

ZONE #3: Desert Creek: (5526-5550)

23. PU packer to 5520' KB, swab well back until cleaned up and flow test through test separator to obtain fluid and gas flow rates and pressures. Report data to Dallas office and will advise on SI.
24. After flow test of Zone #3 is completed, retrieve RBP at 5552' KB and PU and set at 5520' KB.

ZONE #4: Desert Creek - Top Zone (5496-5507)

25. PU packer to 5490' KB, swab well back until cleaned up and flow test through test separator to obtain fluid and gas flow rates and pressures. Report data to Dallas office and will advise on SI.
26. After flow test of Zone #4 is completed, retrieve RBP at 5520' KB, TOH, and LD packer, bridge plug, and electronic gauges.
27. If well is not capable of sustained flow go to Step 29. If well is capable of flowing, PU a 2-7/8" x 31' tail joint, 5-1/2 x 2-7/8 x 3 Model 'R' Completion packer, 2-7/8 SN and RIH on 2-7/8 tbg to 5400' KB. Circulate packer fluid containing corrosion inhibitor down back side to packer and set.
28. Swab well to unload allow to clean up and flow test. (Optional) Run electronic gauges, prior to test, and hang gauges at mid-perf. Flow test and shut times will be determined prior to test. POOH with gauges making static gradient stops. Go to step 30.
29.
 - A. If well is unable to flow, RIH with 2-7/8 x 31 open ended tail joint and 2-7/8 SN on 2-7/8 tbg to PBTB at 5663' MD (KE). PU 2 ft off bottom and swab until well is cleaned up.
 - B. Hot oil down tbg with 30 bbl lease oil plus 3 gallons paraffin inhibitor. RIH with tear drop SV on sand line and pressure test tbg to 1000 psig. If okay, make minimum of 4 swab runs to clean up rat hole. PHO standing back tbg.

C. RIH with BHA as follows:

2-7/8 x 31 tail joint perforated 5' on bottom
2-7/8 collar with 2-3/16" holes
2-7/8 SN
7 jts 2-7/8 tbg
5-1/2 x 2-7/8 TAC
173 jts 2-7/8 tbg

D. Land EOT at +/-5620' MD (KB) and pump 15 bbl lease oil down back side.

E. Set TAC in 13,500 psi tension, ND BOP, and NU WHD.

F. Complete well for final pump installation.

Pump Installation

Production Material Requirements:

185 jts 2-7/8 tbg
5-1/2 x 2-7/8 TAC w/35K shear pin
2-7/8 collar w/2-3/16" holes
2-7/8 SN
2-7/8 tail joint perforated 5' on bottom

*Following is estimated based on 100 BPDTF

2-1/2 x 1-1/4 x 15 RHAC
2075'-83: 7/8 x 2-7/8 x 6 per scraped Type 78 Rods
3500'-140: 3/4 x 2-7/8 x 6 per scraped Type 78 Rods
1-1/2 x 26 SM polish rod
5 gallon can of corrosion inhibitor
set of torque cards

G. RU rod table and rod tongs. Calibrate makeup torque on tongs using torque cards.

H. RIH w/following pump and three tapered scraped rod string using corrosion inhibitor on pins and boxes:

1 - 2-1/2 x 1-1/4 x 15 RHAC
1- 3/4 x 2 pony rod
16 - 400' 7/8 x 2-7/8-6 per x 25 rods
140- 3500' 3/4 x 2-7/8-6 per x 25 rods
67 - 1675' 7/8 x 2-7/8-6 per x 25 rods
1 - 1-1/2 x 26 SM polish rod

I. Space out pump and hang off on C160-200-74 pumping unit, SL=74", SPM=to be determined (probably start at 5SPM).

- J. Load tbg with 32 bbl oil and pressure test tbg to 400 psig. Check pump action. Release rig.
30. Production test well for 5-10 days through test facilities to determine proper sizing of facilities.
31. Complete well facility installation and pipeline.

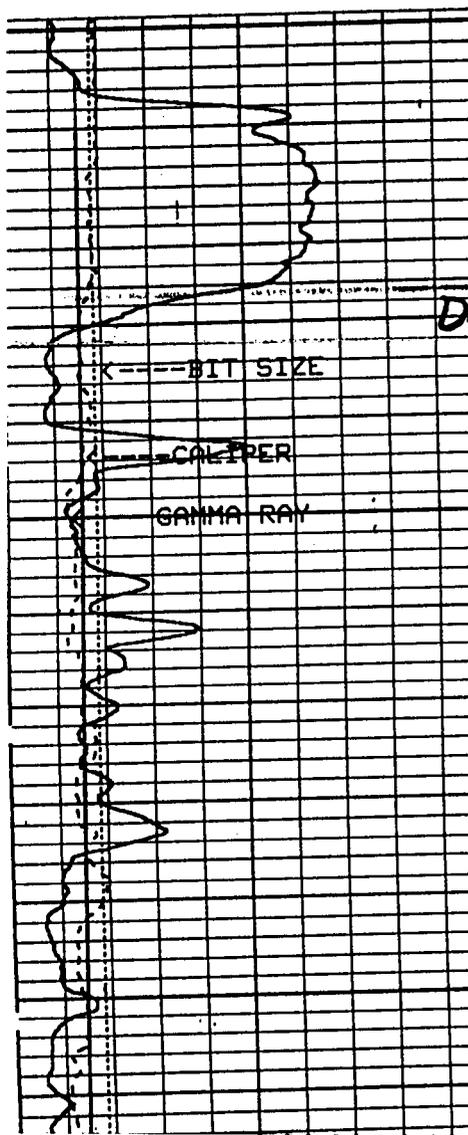
NOTE:

- (1) Wellsite Engineer to account for and report on Daily Completion Report all fluids injected into and removed from well bore during work over operations.
- (2) Dallas office will submit squeeze procedures if required during the completion of said well.
- (3) Swabbing operations will only be conducted during daylight hours, or if sufficient rig lighting is available to swab in complete safety.
- (4) Flow well to cleanup into temporary tanks then produce through test separator into temporary tanks to determine gas rate. Timings for flow periods will be advised by Dallas office.

Big Sky, 6E(6L)H
GR/Density/Neutron

-.25 GM/CC .25
SURFACE TENS
16500 POUNDS 0

30% 20 10 0 -10
DEN CORR

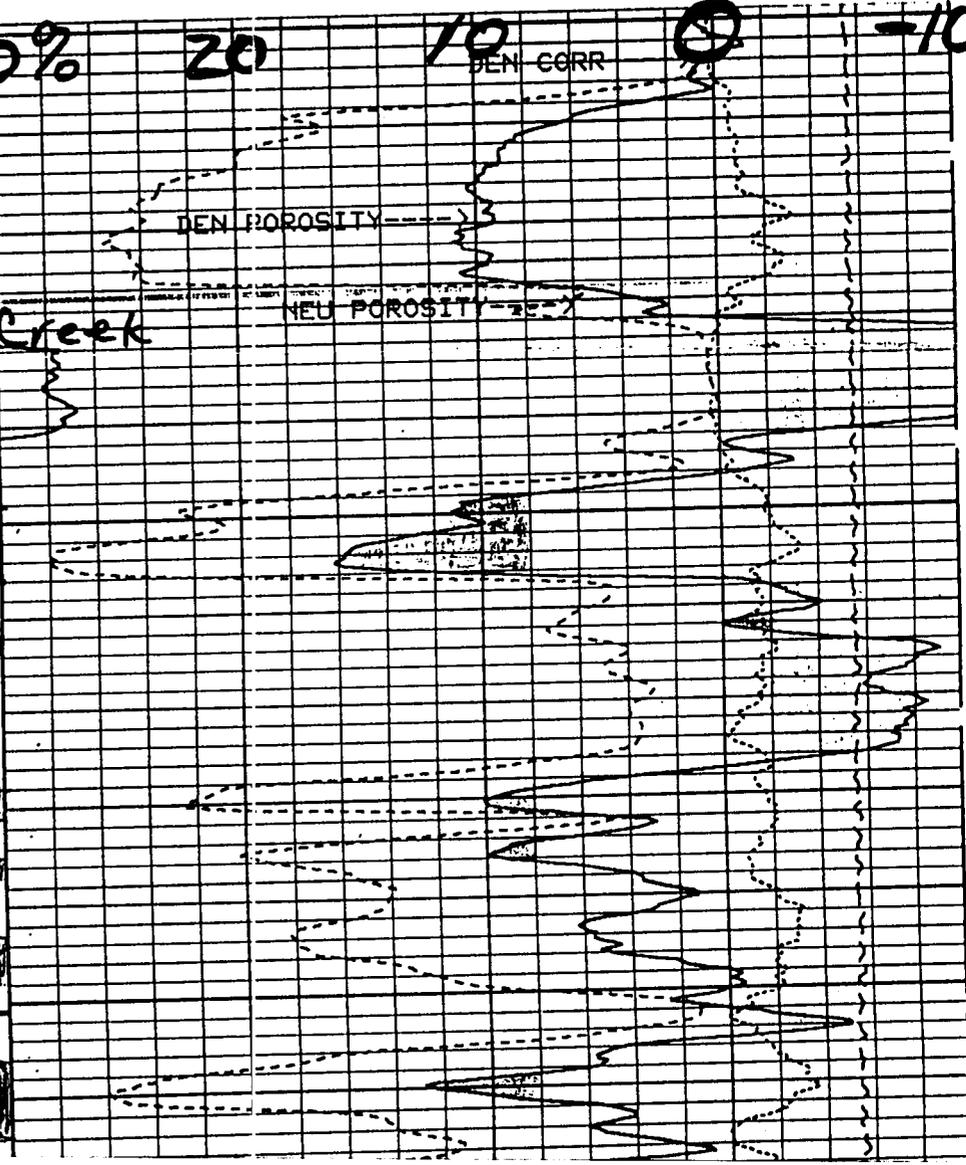


5477
Desert Creek

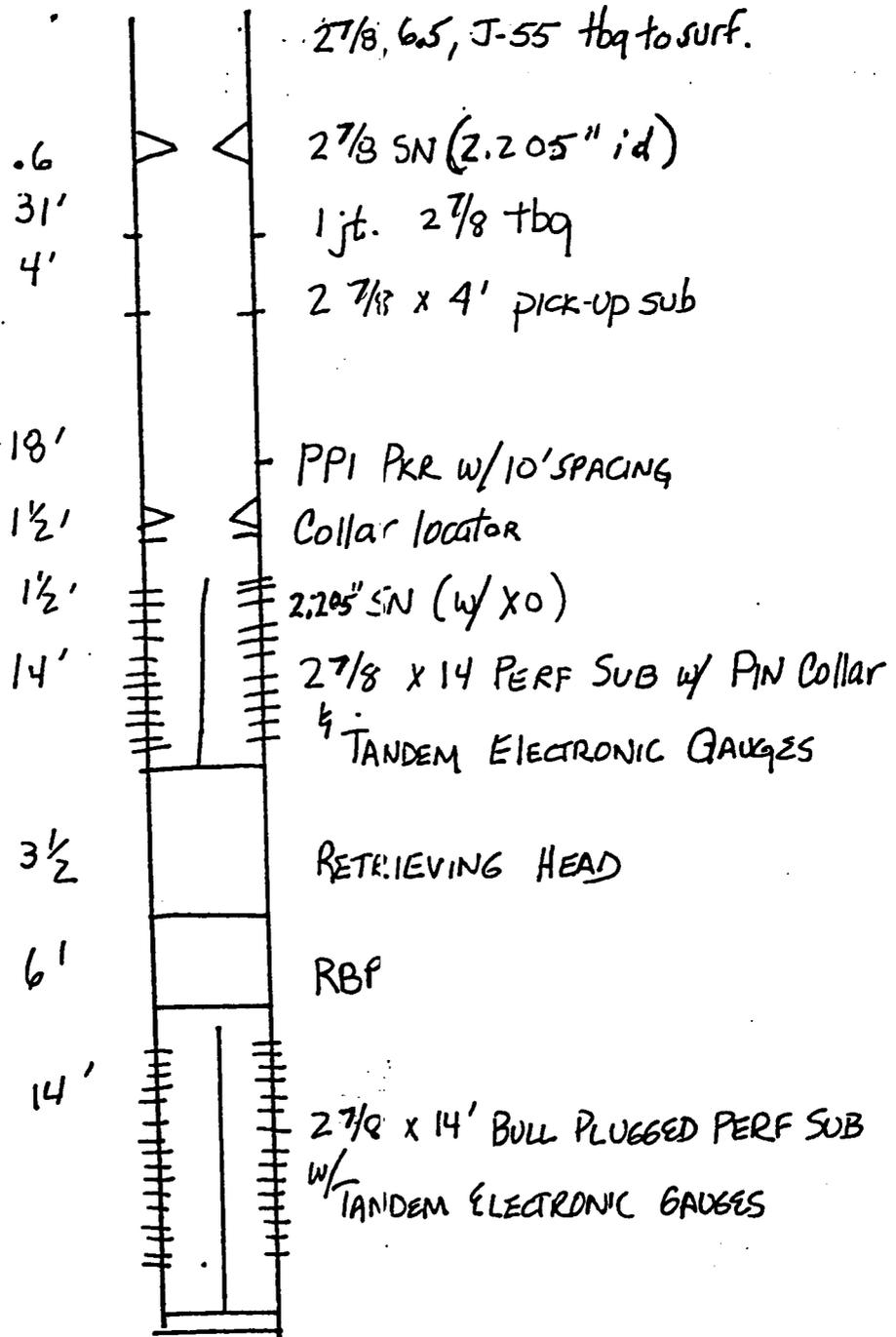
550
Zone 4

Zone 3

Zone 2



COMPLETION ASSEMBLY DIAGRAM



HALLIBURTON ENERGY SERVICES - Drilling Systems

Survey Report

Date: 1/18/95
 Time: 10:53 am
 Wellpath ID: survey
 Date Created: 7/22/94
 Last Revision: 1/18/95

Calculated using the Minimum Curvature Method
 Computed using WIN-CADDS REV2.1.A
 Vertical Section Plane: 108.47 deg.

Survey Reference: WELLHEAD
 Vertical Section Reference: WELLHEAD
 Closure Reference: WELLHEAD
 TVD Reference: WELLHEAD

HARKEN SOUTHWEST CORP.
 BIG SKY 6E(6L)-#1
 SEC 6-T42S-R2SE
 SAN JUAN CO., UTAH

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)	Closure Dist. (ft)	Dir. (deg.)	Walk Rate (dg/100ft)	Build Rate (dg/100ft)	DLS (dg/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00 N 0.00 E	0.00@	0.00	0.00	0.00	0.00
680.00	1.20	271.70	680.00	679.95	-6.82	0.21 N 7.12W	7.12@	271.70	0.00	0.18	0.18
1177.00	2.90	271.60	497.00	1176.61	-23.83	0.72 N 24.89W	24.90@	271.65	-0.02	0.34	0.34
1670.00	2.50	284.70	493.00	1669.07	-46.50	3.79 N 47.76W	47.91@	274.54	2.66	-0.08	0.15
2170.00	0.80	295.20	500.00	2168.85	-60.85	8.05 N 61.46W	61.95@	277.46	2.10	-0.34	0.34
2666.00	0.50	57.00	496.00	2664.83	-62.94	10.70 N 62.78W	63.65@	279.67	24.56	-0.06	0.23
3167.00	0.20	234.70	501.00	3165.82	-62.09	11.39 N 61.66W	62.70@	280.46	35.47	-0.06	0.14
3555.00	0.70	248.90	388.00	3553.81	-64.32	10.14 N 64.42W	65.22@	278.95	3.66	0.13	0.13
3601.00	0.20	229.70	46.00	3599.81	-64.56	9.99 N 64.75W	65.51@	278.77	-41.74	-1.09	1.12
3630.00	1.00	138.50	29.00	3628.81	-64.38	9.77 N 64.62W	65.35@	278.59	-314.48	2.76	3.53
3661.00	2.00	132.30	31.00	3659.80	-63.66	9.20 N 64.04W	64.70@	278.17	-20.00	3.23	3.26
3692.00	3.00	125.70	31.00	3690.77	-62.39	8.36 N 62.96W	63.53@	277.56	-21.29	3.23	3.35
3722.00	4.10	121.90	30.00	3720.71	-60.59	7.34 N 61.43W	61.87@	276.81	-12.67	3.67	3.75
3752.00	5.20	121.90	30.00	3750.61	-58.23	6.05 N 59.37W	59.65@	275.82	0.00	3.67	3.67
3784.00	5.60	118.70	32.00	3782.47	-55.28	4.54 N 56.77W	56.95@	274.57	-10.00	1.25	1.56
3814.00	6.10	113.50	30.00	3812.31	-52.25	3.20 N 54.02W	54.12@	273.39	-17.33	1.67	2.43
3845.00	6.60	111.50	31.00	3843.12	-48.83	1.89 N 50.85W	50.85@	272.13	-6.45	1.61	1.76
3876.00	7.20	111.50	31.00	3873.90	-45.11	0.52 N 47.39W	47.39@	270.63	0.00	1.94	1.94
3907.00	7.60	109.00	31.00	3904.64	-41.12	0.86 S 43.64W	43.65@	268.87	-8.06	1.29	1.66
3938.00	8.20	107.10	31.00	3935.34	-36.86	2.17 S 39.59W	39.65@	266.86	-6.13	1.94	2.11
3969.00	8.70	106.10	31.00	3966.01	-32.31	3.47 S 35.23W	35.40@	264.37	-3.23	1.61	1.66
4001.00	9.50	106.40	32.00	3997.60	-27.25	4.89 S 30.37W	30.76@	260.85	0.94	2.50	2.50
4032.00	10.20	106.10	31.00	4028.15	-21.96	6.47 S 25.30W	25.12@	255.66	6.48	2.26	2.44
4064.00	11.50	107.90	32.00	4059.57	-15.93	8.33 S 19.57W	21.27@	246.95	-0.62	4.06	4.06
4096.00	12.80	107.40	32.00	4090.86	-9.19	10.37 S 13.16W	16.75@	231.76	-1.56	4.06	4.08
4125.00	13.50	106.10	29.00	4119.10	-2.60	12.27 S 6.84W	14.04@	209.14	-4.48	2.41	2.62
4155.00	14.40	105.50	30.00	4148.21	4.62	14.24 S 0.12 E	14.24@	179.52	-2.00	3.00	3.04
4186.00	15.50	105.20	31.00	4178.16	12.61	16.35 S 7.83 E	18.13@	154.41	-0.97	3.55	3.56
4217.00	16.40	104.70	31.00	4207.97	21.11	18.55 S 16.06 E	24.54@	139.11	-1.61	2.90	2.94
4249.00	17.10	103.60	32.00	4236.61	30.31	20.80 S 25.01 E	32.53@	129.76	-3.44	2.19	2.40
4279.00	17.90	103.60	30.00	4267.22	39.30	22.92 S 33.77 E	40.82@	124.16	0.00	2.67	2.67
4310.00	18.60	103.90	31.00	4296.66	48.97	25.23 S 43.20 E	50.03@	120.28	0.97	2.26	2.28
4341.00	19.80	103.90	31.00	4325.94	59.13	27.68 S 53.10 E	59.88@	117.53	0.00	3.87	3.87
4373.00	21.00	103.80	32.00	4355.93	70.25	30.35 S 63.93 E	70.77@	115.39	-0.31	3.75	3.75
4403.00	22.20	103.40	30.00	4383.82	81.25	32.94 S 74.66 E	81.61@	113.81	-1.33	4.00	4.03
4434.00	22.40	103.00	31.00	4412.60	92.97	35.65 S 86.12 E	93.20@	112.48	-1.29	0.65	0.81
4465.00	22.10	103.20	31.00	4441.20	104.65	38.26 S 97.55 E	104.76@	111.43	0.65	-0.97	1.00
4497.00	21.90	104.30	32.00	4470.87	116.60	41.14 S 109.19 E	116.66@	110.84	3.44	-0.63	1.43
4528.00	21.60	105.30	31.00	4499.66	128.06	44.07 S 120.30 E	128.12@	110.12	3.23	-0.97	1.54
4559.00	21.70	106.80	31.00	4528.47	139.49	47.24 S 131.29 E	139.53@	109.79	4.84	0.32	1.81

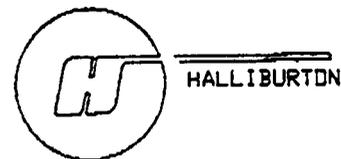
HALLIBURTON ENERGY SERVICES - Drilling Systems

Page 2
Date: 1/18/95
Wellpath ID: survey

Survey Report

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	TOTAL		Closure Dist. (ft)	Dir. (deg.)	Walk Rate (dg/100ft)	Build Rate (dg/100ft)	DLS (dg/100ft)
						Rectangular (ft)	Offsets (ft)					
4590.00	21.30	106.90	31.00	4557.31	150.85	50.53 S	142.16 E	150.87@	109.57	0.32	-1.29	1.30
4621.00	21.70	106.80	31.00	4586.16	162.20	53.82 S	153.04 E	162.22@	109.38	-0.32	1.29	1.30
4652.00	21.90	106.20	31.00	4614.94	173.71	57.09 S	164.07 E	173.72@	109.19	-1.94	0.65	0.97
4683.00	21.50	105.50	31.00	4643.74	185.16	60.22 S	175.10 E	185.17@	108.98	-2.26	-1.29	1.54
4715.00	21.60	105.30	32.00	4673.51	196.90	63.34 S	186.43 E	196.90@	108.77	-0.62	0.31	0.39
4746.00	21.80	104.90	31.00	4702.31	208.34	66.33 S	197.50 E	208.34@	108.56	-1.29	0.65	0.80
4777.00	22.40	105.00	31.00	4731.03	219.98	69.34 S	208.77 E	219.98@	108.37	0.32	1.94	1.94
4808.00	22.60	105.30	31.00	4759.67	231.82	72.44 S	220.22 E	231.83@	108.21	0.97	0.65	0.74
4839.00	22.70	106.10	31.00	4788.28	243.75	75.67 S	231.71 E	243.75@	108.09	2.58	0.32	1.04
4870.00	22.70	106.40	31.00	4816.88	255.70	79.02 S	243.19 E	255.71@	108.00	0.97	0.00	0.37
4901.00	23.00	106.90	31.00	4845.45	267.73	82.47 S	254.73 E	267.74@	107.94	1.61	0.97	1.15
4931.00	22.90	107.20	30.00	4873.07	279.43	85.90 S	265.91 E	279.44@	107.90	1.00	-0.33	0.51
4963.00	23.00	108.00	32.00	4902.54	291.90	89.67 S	277.80 E	291.92@	107.89	2.50	0.31	1.02
4994.00	22.70	108.30	31.00	4931.11	303.94	93.42 S	289.24 E	303.96@	107.90	0.97	-0.97	1.04
5025.00	22.80	109.00	31.00	4959.70	315.93	97.25 S	300.60 E	315.94@	107.93	2.26	0.32	0.93
5056.00	23.30	109.50	31.00	4988.22	328.06	101.25 S	312.06 E	328.08@	107.98	1.61	1.61	1.73
5087.00	24.10	108.60	31.00	5016.61	340.52	105.32 S	323.84 E	340.53@	108.02	-2.90	2.58	2.83
5118.00	24.30	107.80	31.00	5044.88	353.23	109.29 S	335.91 E	353.24@	108.02	-2.58	0.65	1.24
5149.00	24.30	108.30	31.00	5073.14	365.98	113.03 S	348.11 E	365.00@	107.99	-4.84	0.00	1.99
5180.00	23.10	108.30	31.00	5101.52	378.43	116.53 S	360.06 E	378.45@	107.93	0.00	-3.87	3.87
5212.00	21.80	106.90	32.00	5131.10	390.65	120.02 S	371.78 E	390.67@	107.89	1.87	-4.06	4.13
5243.00	21.70	107.90	31.00	5159.89	402.13	123.45 S	382.74 E	402.15@	107.88	3.23	-0.32	1.24
5274.00	21.30	109.80	31.00	5188.73	413.49	127.12 S	393.49 E	413.51@	107.90	6.13	-1.29	2.59
5306.00	21.20	110.50	32.00	5218.56	425.08	131.11 S	404.38 E	425.10@	107.96	2.19	-0.31	0.85
5337.00	21.90	111.50	31.00	5247.39	436.46	135.20 S	415.01 E	436.47@	108.04	3.23	2.28	2.56
5368.00	23.00	112.80	31.00	5276.04	448.27	139.66 S	425.97 E	448.28@	108.15	4.19	3.55	3.89
5399.00	23.50	112.80	31.00	5304.52	460.47	144.40 S	437.25 E	460.48@	108.28	0.00	1.61	1.61
5429.00	23.50	112.70	30.00	5332.03	472.40	149.03 S	448.28 E	472.40@	108.39	-0.33	0.00	0.13
5460.00	23.00	112.20	31.00	5360.52	484.61	153.70 S	459.59 E	484.61@	108.49	-1.61	-1.61	1.73
Top Desert Creek Porosity												
5477.00	22.89	112.03	17.00	5376.17	491.23	156.20 S	466.73 E	491.23@	108.54	-1.00	-0.65	0.76
5491.00	22.80	111.90	14.00	5389.07	496.65	158.23 S	470.77 E	496.65@	108.58	-0.93	-0.64	0.74
Top Perforated Interval												
5498.00	22.78	111.81	7.00	5395.53	499.36	159.24 S	473.29 E	499.36@	108.60	-1.29	-0.29	0.57
5523.00	22.70	111.50	25.00	5418.58	509.01	162.81 S	482.27 E	509.01@	108.65	-1.24	-0.32	0.58
5555.00	22.20	111.90	32.00	5448.16	521.21	167.32 S	493.62 E	521.21@	108.73	1.25	-1.56	1.63
5586.00	22.30	112.20	31.00	5476.85	532.92	171.73 S	504.50 E	532.93@	108.80	0.97	0.32	0.49
Base Perforated Interval												
5596.00	22.27	112.23	10.00	5486.10	536.71	173.17 S	508.01 E	536.72@	108.82	0.30	-0.30	0.32
5617.00	22.20	112.30	21.00	5505.54	544.63	176.18 S	515.37 E	544.65@	108.87	0.33	-0.33	0.36
5648.00	22.20	113.40	31.00	5534.24	556.31	180.72 S	526.16 E	556.33@	108.96	3.55	0.00	1.34
Base Desert Creek Porosity												
5656.00	22.20	113.61	8.00	5541.65	559.32	181.93 S	528.93 E	559.35@	108.98	2.62	0.00	0.99
The following survey is projected to Total Depth!												
5709.00	22.20	115.00	53.00	5590.72	579.24	190.17 S	547.18 E	579.25@	109.16	2.62	0.00	0.99

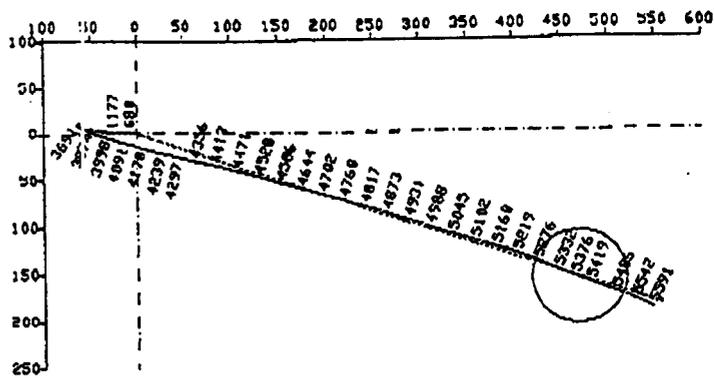
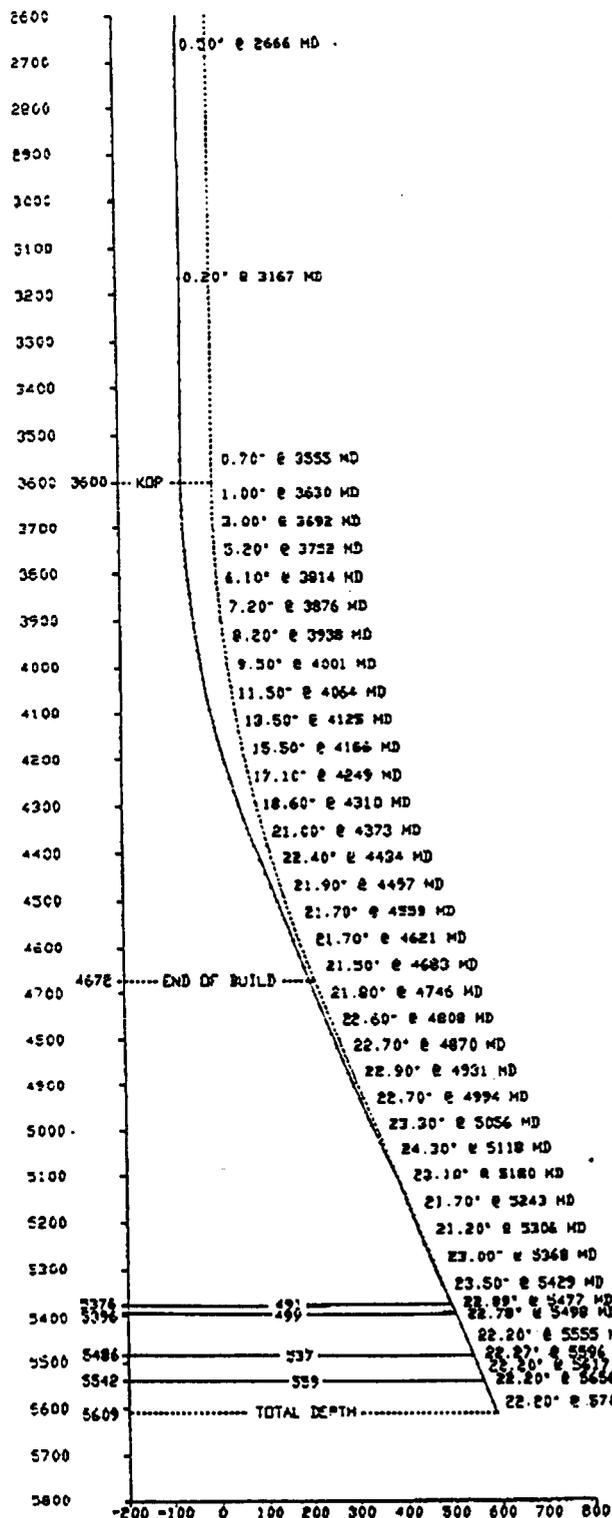
HARKEN SOUTHWEST CORP. BIG SKY 6E(6L)-#1 SEC 6-T42S-R25E SAN JUAN CO., UTAH



1/18/95 10:55 am

VERTICAL VIEW
SCALE 100 ft. / DIVISION
TVD REF: WELLHEAD
VERTICAL SECTION REF: WELLHEAD

HORIZONTAL VIEW
SCALE 50 ft. / DIVISION
SURVEY REF: WELLHEAD



VERTICAL SECTION PLANE: 108.47

R E C E I V E
JAN 26 1995

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

SUNDRY NOTICES AND REPORTS ON WELLS OF OIL, GAS & MINING

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir,
Use "APPLICATION FOR PERMIT --" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No. 14-20-603-373 (BIA)
6. If Indian, Allottee or Tribe Name Navajo
7. If Unit or CA. Agreement Designation N/A
8. Well Name and No. Big Sky 6E (6L) #1
9. API Well No. 43-037-31714
10. Field and Pool, or Exploratory Area Wildcat
11. County or Parish, State San Juan Co., UT

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other
2. Name of Operator Harken Southwest Corporation
3. Address and Telephone No. P. O. Box 612007, Dallas, TX 75261 214/753-6900
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Surf: 2585' FNL & 125' FWL Section 6-42S-25E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other BHL _____	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent dates, including estimated date of starting any proposed work. If well is directionaly drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Pursuant to the revision of the BHL on the subject well, attached you will find a revised location plat with the corrected, as drilled, bottom hole location.

BHL: 672' FWL & 2505' FSL

CONFIDENTIAL

CC: State of Utah

14. I hereby certify that the foregoing is true and correct
 Signed Rachelle Montgomery Title Production Administrator Date 1/24/95

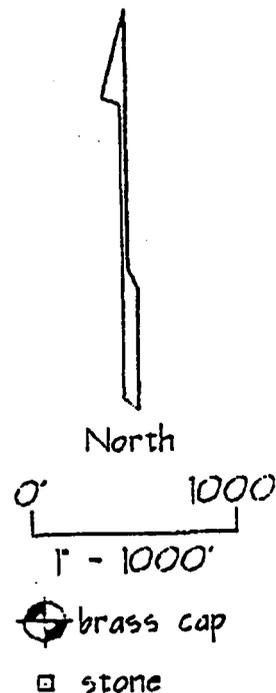
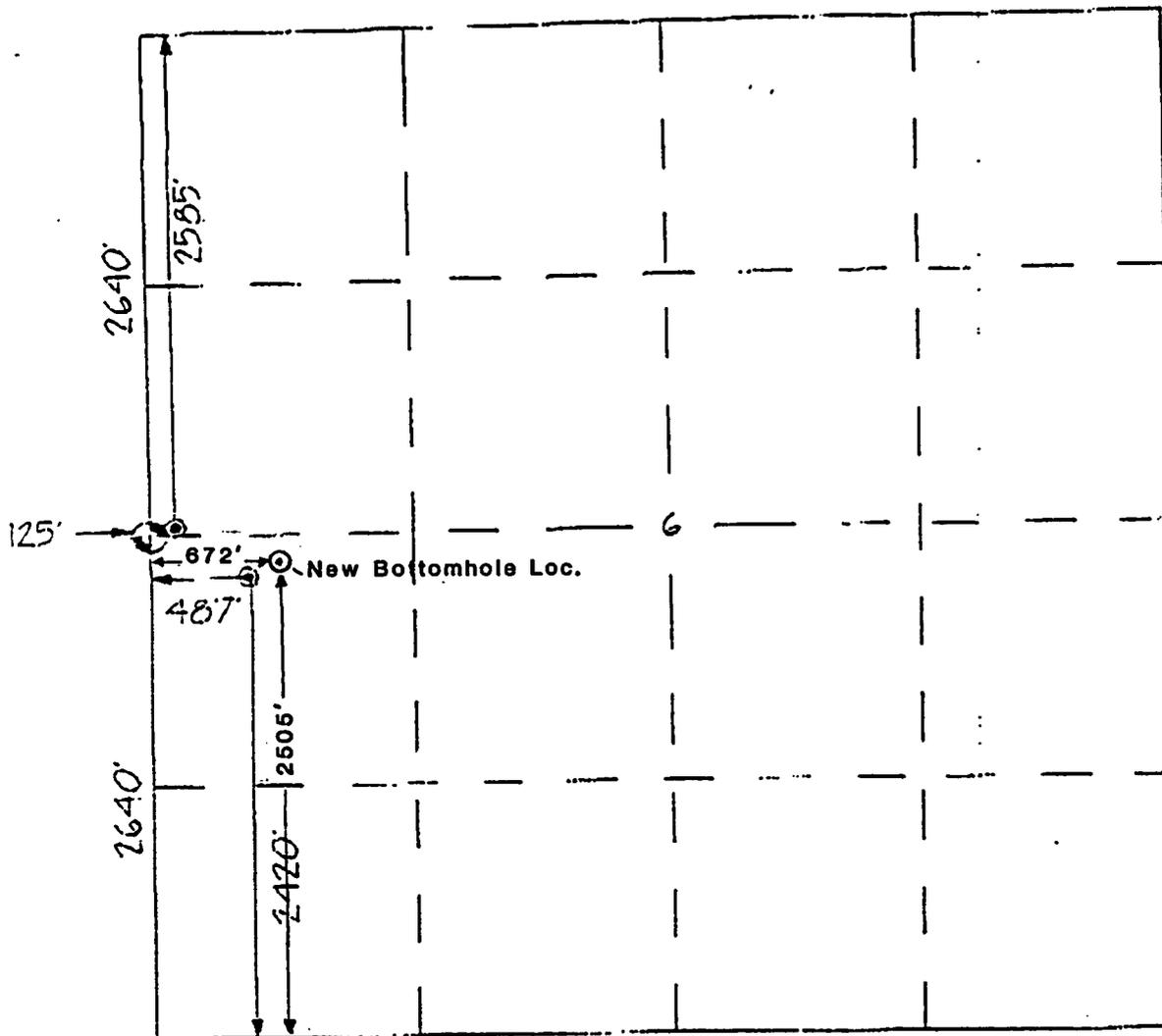
(This space for Federal or State office use)
 Approved by _____ Title _____ Date _____

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes 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.

*See Instruction on Reverse Side

Well Location Plat



Well Location Description

MARKIN SOUTHWEST CORPORATION

BIG SKY 6E (6L) - 1

2585' FNL & 125' FWL (top hole)

~~2420' FSL & 487' FWL (bottom hole)~~

REVISED BHL

672' FWL & 2505' FSL

Section 6, T.42 S., R.25 E., SLM

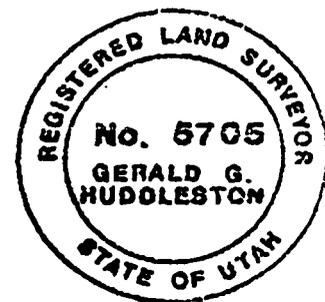
San Juan County, Utah

4726' ground elevation from seismic

State plane coordinates from seismic control

x - 2,663,565 y - 189,339 (top hole)

x - 2,663,927 y - 189,064 (bottom hole) sta. 128.5 line WMT - 8



rev. 17 MARCH 1994

Gerald G. Huddleston
Gerald G. Huddleston, L.S.

The above is true and correct to my knowledge and belief.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MAR - 7 1995

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.
14-20-603-373 (BIA)

Indian, Allottee or Tribe Name
Navajo

SUNDRY NOTICES AND REPORTS ON WELLS OF OIL, GAS & MINING

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation
N/A

1. Type of Well
 Oil Well Gas Well Other

8. Well Name and No.
Big Sky 6E (6L) #1

2. Name of Operator
HARKEN SOUTHWEST CORPORATION

9. API Well No.
43-037-31714

3. Address and Telephone No.
P. O. Box 612007, Dallas, TX 75261 (214) 753-6900

10. Field and Pool, or Exploratory Area
Wildcat

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NW/NW Sec 6-42S-25E
2585' FNL & 125' FWL (Surface Location)

11. County or Parish, State
San Juan Co., UT

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other
	<input type="checkbox"/> Change of Plans
	<input checked="" type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Attached please find a map of the Big Sky 6E (6L) pipeline.

The proposed line will be ± 5982' in length running from the Big Sky location to Harken's Hillside 6C location.

Estimated line and working pressure is not to exceed 125 max psi, based on equipment specifications. A compressor is not anticipated at this time.

The line will be 2-7/8" od line, 2.441 ID external tar tape wrap, with welded connections. The line will lay on the surface.

Construction is anticipated to begin as soon as the weather permits.

***** Please consider this submittal **CONFIDENTIAL** *****

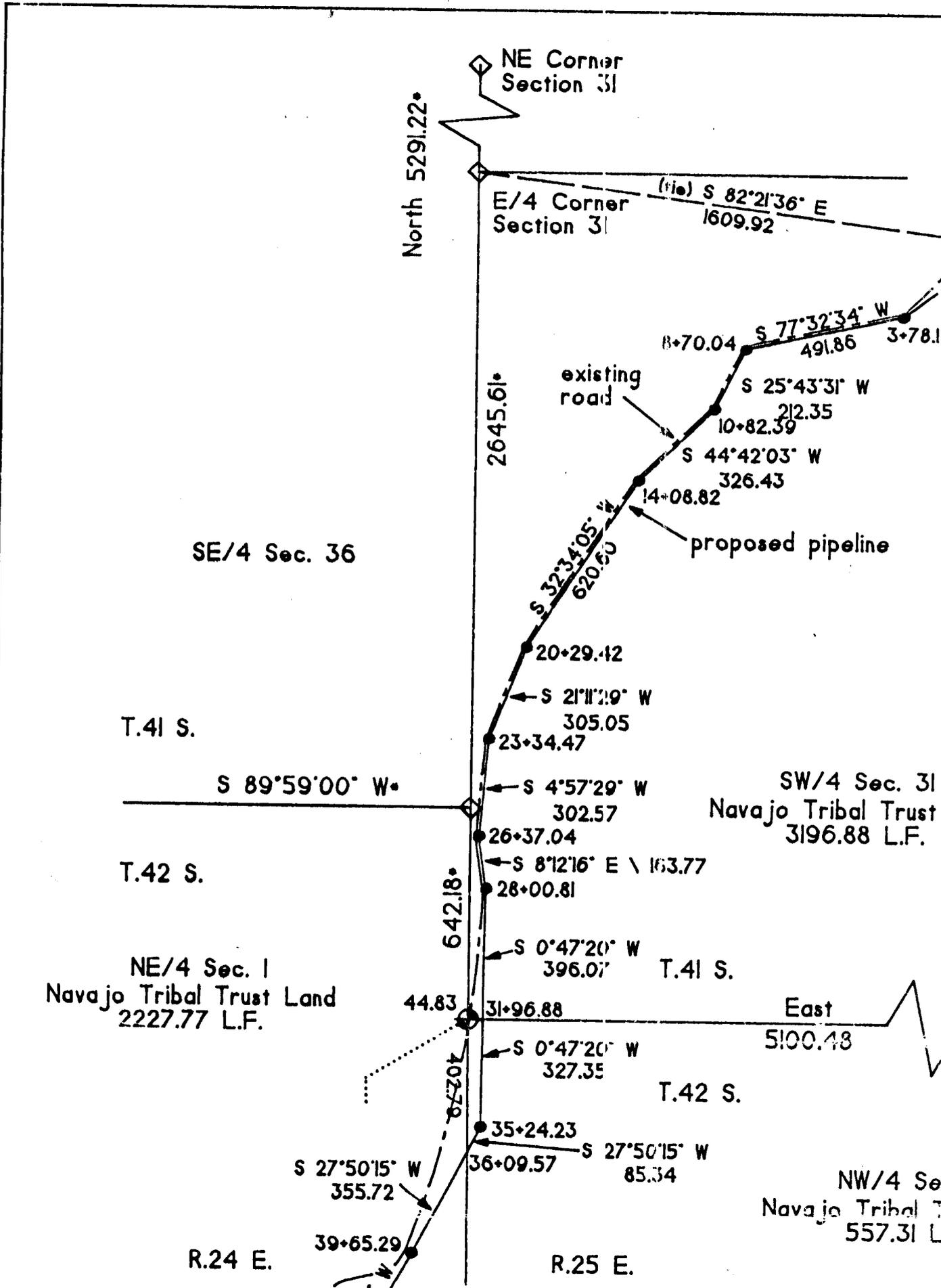
CC: State of Utah

14. I hereby certify that the foregoing is true and correct

Signed [Signature] Title Production Administrator Date 3/6/95

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:



T.42 S.

NE/4 Sec. 1
Navajo Tribal Trust Land
2227.77 L.F.

3196.88 L.F.

26+37.04
S 8°12'16" E \ 163.77
28+00.81
S 0°47'20" W
396.07

T.41 S.

44.83
31+96.88
S 0°47'20" W
327.35
5100.48
Ecst

T.42 S.

35+24.23
36+09.57
S 27°50'15" W
85.34

NW/4 Sec. 7
Navajo Tribal Trust Land
557.31 L.F.

R.24 E.

R.25 E.

proposed pipeline

S 27°50'15" W
355.72
39+65.29
S 29°30'40" W
569.66
45+34.95
S 14°53'41" W
283.65
48+18.60
S 6°14'34" W
190.45
existing road
50+09.05
S 39°08'42" E
282.74
52+91.79

2633.47
1899.34

N 0°04'00" W
5280.00

S 41°51'41" E
144.62

(tie) S 23°15'37" W \ 243.41

EOL - 59+81.96 at loc.
Big Sky 6E (6L) - 1 loc.

58+37.34
331.34

W/4 Corner
Section 6

SW/4 Corner
Section 6

 BOL - 0+00
at Hillside 6-C
Tank Battery

S 51°33'01" W
378.18

I, Law
for Hark
applicant
foregoing
Surveyor
location
located
length, b
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6E (6L)
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CENTERLINE DESCRIPTION DATA:

POINT	BEARING	DISTANCE
E/4 CORNER (TIE)	SECTION 31, T.41 S., R.25 E. S 82°21'36" E	1609.92
0+00 = BOL	at Hillside 6-C Tank Battery S 51°33'01" W	378.18
3+78.18	S 77°32'34" W	491.86
8+70.04	S 25°43'31" W	212.35
10+82.39	S 44°42'03" W	326.43
14+08.82	S 32°34'05" W	620.60
20+29.42	S 21°11'29" W	305.05
23+34.47	S 04°57'29" W	302.57
26+37.04	S 08°12'16" E	163.77
28+00.81	S 00°47'20" W	396.07
31+96.88	SECTION LINE 31/6 S 00°47'20" W	327.35
35+24.23	S 27°50'15" W	85.34
36+09.57	SECTION LINE 6/1 S 27°50'15" W	355.72
39+65.29	S 29°30'40" W	569.66
45+34.95	S 14°53'41" W	283.65
48+18.60	S 06°14'34" W	190.45
50+09.05		

STATE OF

COUNTY OF

Gerald G.
that he i
under his
survey fo
located c
feet, i.e.
Hillside
station 5
T.42 S.,

Subscribe

and

NE/4 Corner
Section 6

6
East Lead

Land

14+08.82

S 32°34'05" W

620.60

STATE OF

20+29.42

S 21°11'29" W

305.05

COUNTY OF

23+34.47

S 04°57'29" W

302.57

Gerald

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S 00°47'20" W

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S 27°50'15" W

85.34

located

36+09.57

SECTION LINE 6/1

S 27°50'15" W

355.72

feet, 1

Hillside

station

T.42 S.,

39+65.29

S 29°30'40" W

569.66

Subscrib

45+31.95

S 14°53'41" W

283.65

48+13.60

S 06°14'34" W

190.45

50+09.05

S 39°08'42" E

282.74

52+91.79

S 41°51'41" E

545.55

58+37.34

SECTION LINE 1/6

S 41°51'41" E

144.62

59+81.96 =

EOL at Big Sky 6E (6L) - 1 loc.

(TIE)

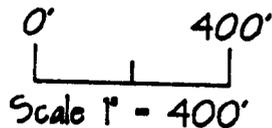
S 23°15'37" W

243.41

W/4 CORNER

SECTION 6, T.42 S., R.25 E.

5981.96 TOTAL FEET



- ⊕ fnd. BLM brass cap
- ◇ calculated corner
- PI
- from GLO plat

Basis of Bearing: West line of Section 6 between fnd. corners - N 00°04' W from GLO plat

"APPLICANT'S CERTIFICATE"

A. Chambers, do hereby certify that I am the manager in Southwest Corporation, hereafter designated the applicant; that Gerald G. Huddleston who subscribed to the affidavit, is employed by the applicant as a Land Surveyor and that he was directed by the applicant to survey the location of the pipeline right-of-way, on Navajo Tribal Trust Land, in San Juan County, Utah, 5981.96 feet, 1.13 miles in length, beginning at station 0+00 at the Hillside 6-C Tank Battery in Section 31, T.41 S., R.25 E., to station 59+81.96 at the Big Sky 6E (6L) location in Section 6, T.42 S., R.25 E., is accurately located on this map; that such survey as represented on this map has been adopted by the applicant as the definite location of the right-of-way thereby shown; and that the map has been prepared and filed with the Secretary of the Interior or his duly authorized representative as part of the application for said right-of-way to be granted the applicant, its successors and assigns, with right to construct, maintain and repair improvements, and thereover, for such purposes, and with the further consent of the applicant, its successors and assigns, to transfer the right-of-way by assignment, grant or otherwise.

Gary A. Chambers
Manager, Harkin Southwest Corp. - Applicant

"SURVEYOR'S AFFIDAVIT"

COLORADO:

: ss

MONTEZUMA :

Gerald G. Huddleston being first duly sworn, deposes and states that he is a Land Surveyor; that the survey was made by him (or under his direction); that he has examined the field notes of the survey for a right-of-way, as described and shown on this map; that the location of the pipeline right-of-way on Navajo Tribal Trust Land, San Juan County, Utah, 5981.96 feet, 1.13 miles in length, beginning at station 0+00 at the Hillside 6-C Tank Battery in Section 31, T.41 S., R.25 E., to station 59+81.96 at the Big Sky 6E (6L) location in Section 6, T.42 S., R.25 E., is accurately located on this map.

Gerald G. Huddleston
and sworn to before me this 25th day of July, 1994
Ernie M. Duran
Notary Public, My Commission
expires 2-10-94

MONTEZUMA :

Huddleston being first duly sworn, deposes and states as a Land Surveyor; that the survey was made by him (or direction); that he has examined the field notes of the right-of-way, as described and shown on this map; Navajo Tribal Trust Land, San Juan County, Utah, 5981.96 3 miles in length, beginning at station 0+00 at the 6-C Tank Battery in Section 31, T.41 S., R.25 E., to 0+81.96 at the Big Sky 6E (6L) location in Section 6, R.25 E., is accurately located on this map.

Grand E. Huddleston

and sworn to before me this

25th day of March 1994
Jacene M. Duran
Notary Public, My Commission
expires 9-10-94



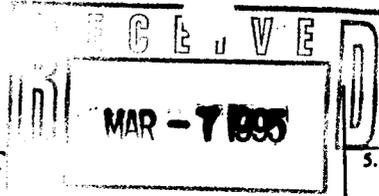
Big Sky Pipeline 6E (6L) - T

HARKIN SOUTHWEST CORP.

Proposed pipeline right-of-way in
Section 6. T.42 S.. R.25 E.. S.L.M.. and
Section 1. T.42 S.. R.24 E.. S.L.M. and
Section 31. T.41 S.. R.25 E.. S.L.M..
San Juan County. Utah
24 March 1994

HIDDLESTON LAND SURVEYING
P.O.B KK - CORTEZ, COLORADO 81321 - (303) 565-3330

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT



FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS OIL, GAS & MINERAL
Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.
14-20-603-373 (BIA)
6. If Indian, Allottee or Tribe Name
Navajo
7. If Unit or CA, Agreement Designation
N/A
8. Well Name and No.
Big Sky 6E (6L) #1
9. API Well No.
43-037-31714
10. Field and Pool, or Exploratory Area
Wildcat
11. County or Parish, State
San Juan Co., UT

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other
2. Name of Operator
HARKEN SOUTHWEST CORPORATION
3. Address and Telephone No.
P. O. Box 612007, Dallas, TX 75261 (214) 753-6900
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NW/NW Sec 6-42S-25E
2585' FNL & 125' FWL (Surface Location)

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATLRE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Flaring</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

In accordance with the conditions of approval, permission must be granted for flaring gas production beyond the original authorized 30 day test period. Harken Southwest request authorization to continue flaring operations for an additional 60 days due to the following reasons:

- 1). The pipeline construction has been hampered by weather conditions and the pipeline deviates from the roadway.
- 2). The Navajo Nation approved the pipeline project on March 2, 1995 and construction could not commence prior to approval.

Please be advised the subject wellbore has produced volumes from calculated ranges of 123 MCFD to ± 600 MCFD. All gas production to date has been flared.

***** Please consider this submittal **CONFIDENTIAL** *****

CC: State of Utah

14. I hereby certify that the foregoing is true and correct.

Signed Rachelle Montgomery Title Production Administrator Date 3/6/95

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MAR - 7 1995

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS OF OIL, GAS & MINING

Do not use this form for proposals to drill or to deepen or reentry to a different reserve.
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.
14-20-603-373 (BIA)

6. If Indian, Allottee or Tribe Name
Navajo

7. If Unit or CA, Agreement Designation
N/A

8. Well Name and No.
Big Sky 6E (6L)#1

9. API Well No.
43-037-31714

10. Field and Pool, or Exploratory Area
Wildcat

11. County or Parish, State
San Juan Co., UT

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Harken Southwest Corporation

3. Address and Telephone No.
P.O. Box 612007, Dallas, TX 75261 (214) 753-6900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
**NW/NW Sec. 6 - 42S - 25E
2585' FNL & 125' FWL (Surface)**

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other Status
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Completion work continues on the subject wellbore. All production is going to test facilities, no permanent production facilities are in place as of this date.

First sales of test production occurred on 02/09/95.

As of 2/28/95 the well is on a 48 hr flow test. The well is to be shut in for build up @ 12 noon March 2, 1995 until 10:00 am., March 7, 1995.

***** Please consider this submittal **CONFIDENTIAL** *****

cc: State of Utah

14. I hereby certify that the foregoing is true and correct

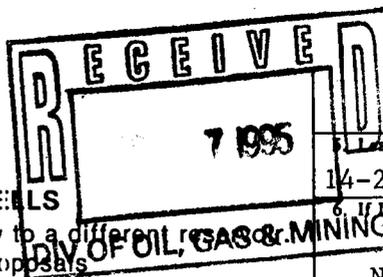
Signed *Nachelle Montgomery* Title Production Administrator Date 3/3/95

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes 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.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT



FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different well.
Use "APPLICATION FOR PERMIT—" for such proposals.

5. Lease Designation and Serial No.
14-20-603-373 (BIA)

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

HARKEN SOUTHWEST CORPORATION

3. Address and Telephone No.

P. O. Box 612007, Dallas, TX 75261 (214) 753-6900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

NW/NW Section 6-42S-25E
Surface: 2585' FNL & 125' FWL

NAVAJO NATION

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

Big Sky 6E (6L) #1

9. API Well No.

43-037-31714

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

San Juan County, UT

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other _____ Status _____
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

On March 31 the gas meter was installed at the subject location and the well is on production with the gas currently being metered then flared.

The pipeline permit is currently in the Bureau of Indian Affairs portion of the approval process.

The completion report will be forthcoming.

******* PLEASE CONSIDER THIS SUBMITTAL CONFIDENTIAL *******

CC: State of Utah

14. I hereby certify that the foregoing is true and correct

Signature

[Handwritten Signature]

Title

Production Administrator

Date

4/10/95

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
APR 24 1995
DIV OF OIL, GAS & MINING

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.

20-603-373 (BIA)

6. If Indian, Allottee or Tribe Name

NAVAJO NATION

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

Big Sky 6E (6L) #1

9. API Well No.

43-037-31714

10. Field and Pool, or Exploratory Area
Wildcat

11. County or Parish, State

San Juan County, UT

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

HARKEN SOUTHWEST CORPORATION

3. Address and Telephone No.

P. O. Box 612007, Dallas, TX 75261 (214) 753-6900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

NW/NW Section 6-42S-25E
Surface: 2585' FNL & 125' FWL

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent <input checked="" type="checkbox"/> Subsequent Report <input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing <input type="checkbox"/> Other _____	<input type="checkbox"/> Change of Plans <input type="checkbox"/> New Construction <input type="checkbox"/> Non-Routine Fracturing <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Dispose Water <small>(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</small>

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The completion report will be forthcoming.

******* PLEASE CONSIDER THIS SUBMITTAL CONFIDENTIAL *******

CC: State of Utah

14. I hereby certify that the foregoing is true and correct

Signature: [Signature] Title: Production Administrator Date: 4/10/95

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes 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 statement or representations as to any matter within its jurisdiction.

**UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

SUBMIT IN DUPLICATE*
(See other instructions on reverse side)

FORM APPROVED
OMB NO. 1004-0137
Expires: February 28, 1995

5. LEASE DESIGNATION AND SERIAL NO.
14-20-603-373 (BIA)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo Nation

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME, WELL NO.
Big Sky 6E (6L)

9. APIWELLNO.
43-037-31714

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec 6-42S-25E
(NW/NW)

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

1b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. REVR. Other _____

2. NAME OF OPERATOR
Harken Southwest Corporation

3. ADDRESS AND TELEPHONE NO.
P. O. Box 612007, Dallas, TX 75261 (214) 753-6900

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 2585' FNL & 125' FWL
At top prod. interval reported below
At total depth 2505' FSL & 672' FWL

14. PERMIT NO. 31714 DATE ISSUED 8/24/95

15. DATE SPUNDED 12/28/94 16. DATE T.D. REACHED 1/15/95 17. DATE COMPL. (Ready to prod.) 3/17/95 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 4726' GR/473' KB 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 5712' MD/5594' TVD 21. PLUG, BACK T.D., MD & TVD 5663' MD 22. IF MULTIPLE COMPL., HOW MANY* N/A 23. INTERVALS DRILLED BY N/A ROTARY TOOLS 0-TD CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
Desert Creek 5498-5596' KB 25. WAS DIRECTIONAL SURVEY MADE Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN SPECTRAL DENSITY DUAL SPACED NEUTRON WAS WELL CORRED
Dual Laterolog, MicroLog, Long Spaced Sonic, Cement Bond 5-30-95 No

28. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8-5/8" J-55	24#	448'	12-1/4"	305 sx CL B to surface	0
5-1/2" K-55	15.5#	5708'	7-7/8"	Top of cmt 2350' KB DV @ 4498'-60sx CL "B" 2nd-450 sx CL "B" tail w/100 sx CL "B"	0

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	5443'	5412' KB

31. PERFORATION RECORD (Interval, size and number)
All perms 90 degreeer phasing w/4 JSPF
5498-5506; 5511-14; 5528-31;
5535-37; 5543-48; 5556-64;
5568-70; 5589-96 (all f'tgs from KB)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5534-96' KB	1050 gal 15% HCL NEA
5558-70' KB	450 gal 15% HCL NEA
5556-64' KB	1200 gal 15% HCL NEA

*Continued on back

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
2/7/95	Flowing	Producing

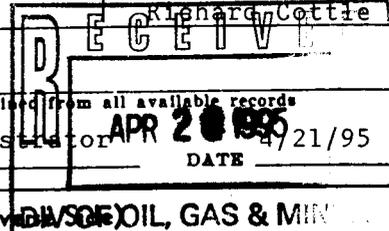
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
3/21/95	25	20/64	→	233	flared	-0-	

FLOW. TUBING PRSS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
167 psig		→	224		-0-	37.6 degree

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
Currently venting—sold upon completion of pipeline TEST WITNESSED BY Richard Cottle

35. LIST OF ATTACHMENTS
Directional Survey

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
SIGNED *Jackelle Montgomery* TITLE Production Administrator DATE APR 20 1995



*(See Instructions and Spaces for Additional Data on Revisions) OIL, GAS & MIN

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
			<p>no Cores or drill stem test were performed</p> <p>Acid treatment continued: 5543-49' KB - 750 gal 15% HCL NEA 5535-37' KB - 300 gal 15% HCL NEA 5528-31' KB - 300 gal 15% HCL NEA 5511-14' KB - 225 gal 15% HCL NEA 5498-5506' KB - 100 gal 15% HCL NEA</p>

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Upper Ismay	5294	5207
Hovenweep	5410	5315
Lwr. Ismay	5422	5326
Gothic Shale	5456	5357
Desert Creek	5476	5375
Chimney Rock	5657	5543
Akah	5673	5557

REPORT OF WATER ENCOUNTERED DURING DRILLING

1. Well name and number: Big Sky 6E (6L) #1

API number: 43-037-31714

2. Well Location: QQ NW/SW Section 6 Township 42S Range 25E County San Juan

3. Well operator: Harken Southwest Corporation

Address: P. O. Drawer 612007, Dallas, TX 75261

Phone: (214) 753-6900

4. Drilling contractor: United Drilling, Inc.

Address: P. O. Box 2488

Roswell, NM 88201

Phone: (505) 623-7730

5. Water encountered (attach additional pages as needed):

DEPTH		VOLUME (FLOW RATE OR HEAD)	QUALITY (FRESH OR SALTY)
FROM	TO		
		NONE REPORTED	

E Log tops not available - hole problems (Navajo, Chinle & Dechelly)

6. Formation tops:

Sample Tops:

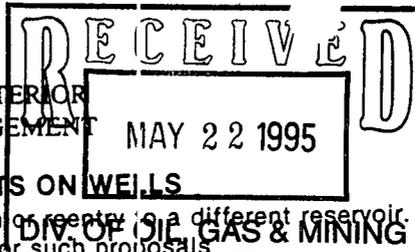
Upper Ismay	5294 MD	5207 TVD
Hovenweep	5410 MD	5315 TVD
Lwr. Ismay	5422 MD	5326 TVD
Gothic Shale	5456 MD	5357 TVD
Desert Creek	5476 MD	5375 TVD
Chimney Rock	5657 MD	5543 TVD
Akah	5673 MD	5557 TVD

If an analysis has been made of the water encountered, please attach a copy of the report to this form.

I hereby certify that this report is true and complete to the best of my knowledge. Date: 5/26/95

Name & Signature: Rachelle Montgomery Title: _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT



FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.

5. Lease Designation and Serial No.
14-20-603-373 (BIA)

6. If Indian, Allottee or Tribe Name
Navajo Tribal

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.
Big Sky 6E (6L) #1

9. API Well No.
43-037-31714

10. Field and Pool, or Exploratory Area

11. County or Parish, State
San Juan County, Utah

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Harken Southwest Corporation

3. Address and Telephone No.
P. O. Box 612007, Dallas, Texas 75261-2007 214/753-6900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NW/NW Section 6-42S-25E
Surface: 2585' FNL & 125' FWL

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Line Connection & Subsequent Gas Flaring</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Harken Southwest (HSW) connected the gas pipeline on the subject well on Friday, May 12, 1995.

On Tuesday, May 16, 1995, Elkhorn notified HSW of trunkline repairs. HSW personnel contacted Mr. Wayne Spencer with BLM-Farmington and received verbal permission to flare gas on the subject well during Elkhorn line repairs.

HSW flared gas from 9 a.m. until 5 p.m. on Tuesday May 16. The total flared volume was 73 MCF.

14. I hereby certify that the foregoing is true and correct

Signature

Title Production Administrator

Date 5/18/95

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes 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.

*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
SUBMIT IN DUPLICATE
MAY 30 1995
Other instructions on reverse side

FORM APPROVED
OMB NO. 1004-0137
Expires: February 28, 1995

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1. STATE DESIGNATION AND SERIAL NO. 14-20-603-373 (BIA)
2. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo Nation

1a. TYPE OF WELL: OIL WELL GAS WELL DRY OTHER
1b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. REVR. Other _____

2. NAME OF OPERATOR Harken Southwest Corporation
3. ADDRESS AND TELEPHONE NO. P. O. Box 612007, Dallas, TX 75261 (214) 753-6900

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 2585' FNL & 125' FWL
At top prod. interval reported below
At total depth 2505' FSL & 672' FWL

11. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA Sec 6-42S-25E

12. COUNTY OR PARISH San Juan
13. STATE Utah

14. PERMIT NO. 31714
DATE ISSUED 8/24/95

15. DATE SPUNDED 12/28/94
16. DATE T.D. REACHED 1/15/95
17. DATE COMPL. (Ready to prod.) 3/17/95
18. ELEVATIONS (DF, RKB, RT, GB, ETC.)* 4726' GR/4738' KB

20. TOTAL DEPTH, MD & TVD 5712' MD/5594' TVD
21. PLUG, BACK T.D., MD & TVD 5663' MD
22. IF MULTIPLE COMPL., HOW MANY* N/A
23. INTERVALS DRILLED BY ROTARY TOOLS 0-TD CABLE TOOLS -----

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
Desert Creek 5498-5596' KB
25. WAS DIRECTIONAL SURVEY MADE Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN DUAL SPACED DEUTERON 5-30-95
Dual Laterolog, MicroLog, Long Spaced Sonic, Cement Bond
27. WAS WELL CORED No

28. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8-5/8" J-55	24#	448'	12-1/4"	305 sx CL B to surface	0
5-1/2" K-55	15.5#	5708'	7-7/8"	Top of cmt 2350' KB DV @ 4498'-60sx CL "B" 2nd-450 sx CL "B" tail w/100 sx CL "B"	0

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	5443'	5412' KB

31. PERFORATION RECORD (Interval, size and number)

All perfs 90 degrees phasing w/4 JSPF
5498-5506; 5511-14; 5528-31;
5535-37; 5543-48; 5556-64;
5568-70; 5589-96 (all f'tgs from KB)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5534-96' KB	1050 gal 15% HCL NEA
5568-70' KB	450 gal 15% HCL NEA
5566-64' KB	1200 gal 15% HCL NEA

*Continued on back

33. PRODUCTION

DATE FIRST PRODUCTION 2/7/95
PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing
WELL STATUS (Producing or shut-in) Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
3/21/95	25	20/64	→	233	flared	-0-	

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
167 psig		→	224		-0-	37.6 degree

34. DISPOSITION OF GAS (Bold, used for fuel, vented, etc.)
Currently venting—sold upon completion of pipeline
TEST WITNESSED BY Richard Cottle

35. LIST OF ATTACHMENTS
Directional Survey

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
SIGNED Rachelle Montgomery TITLE Production Administrator DATE 4/21/95

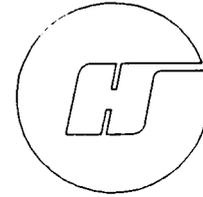
*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
No Cores or drill stem test were performed				Upper Ismay Hovenweep Lwr. Ismay Gothic Shale Desert Creek Chimney Rock Akah	5294 5410 5422 5456 5476 5657 5673	5207 5315 5326 5357 5375 5543 5557
			<p>Acid treatment continued:</p> <p>5543-49' KB - 750 gal 15% HCL NEA</p> <p>5535-37' KB - 300 gal 15% HCL NEA</p> <p>5528-31' KB - 300 gal 15% HCL NEA</p> <p>5511-14' KB - 225 gal 15% HCL NEA</p> <p>5498-5506' KB - 100 gal 15% HCL NEA</p>			

38. GEOLOGIC MARKERS

HARKEN SOUTHWEST CORP.
 BIG SKY 6E(6L)-#1
 SEC 6-T42S-R25E
 SAN JUAN CO., UTAH

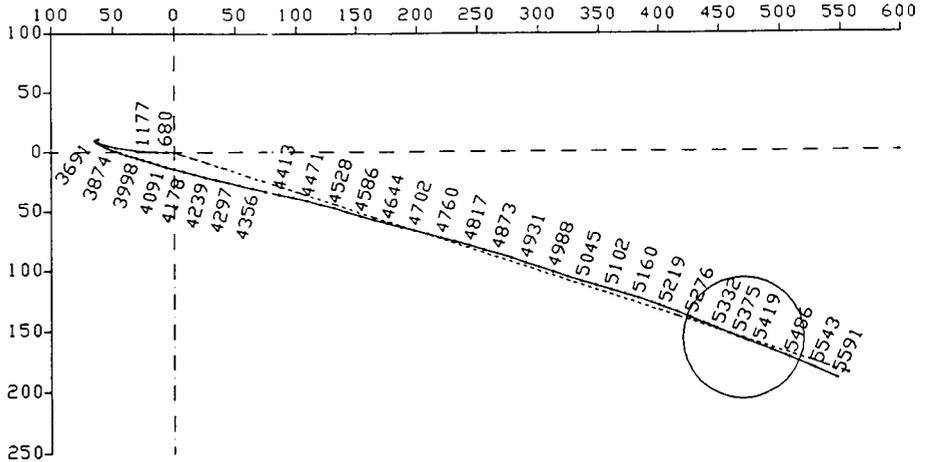
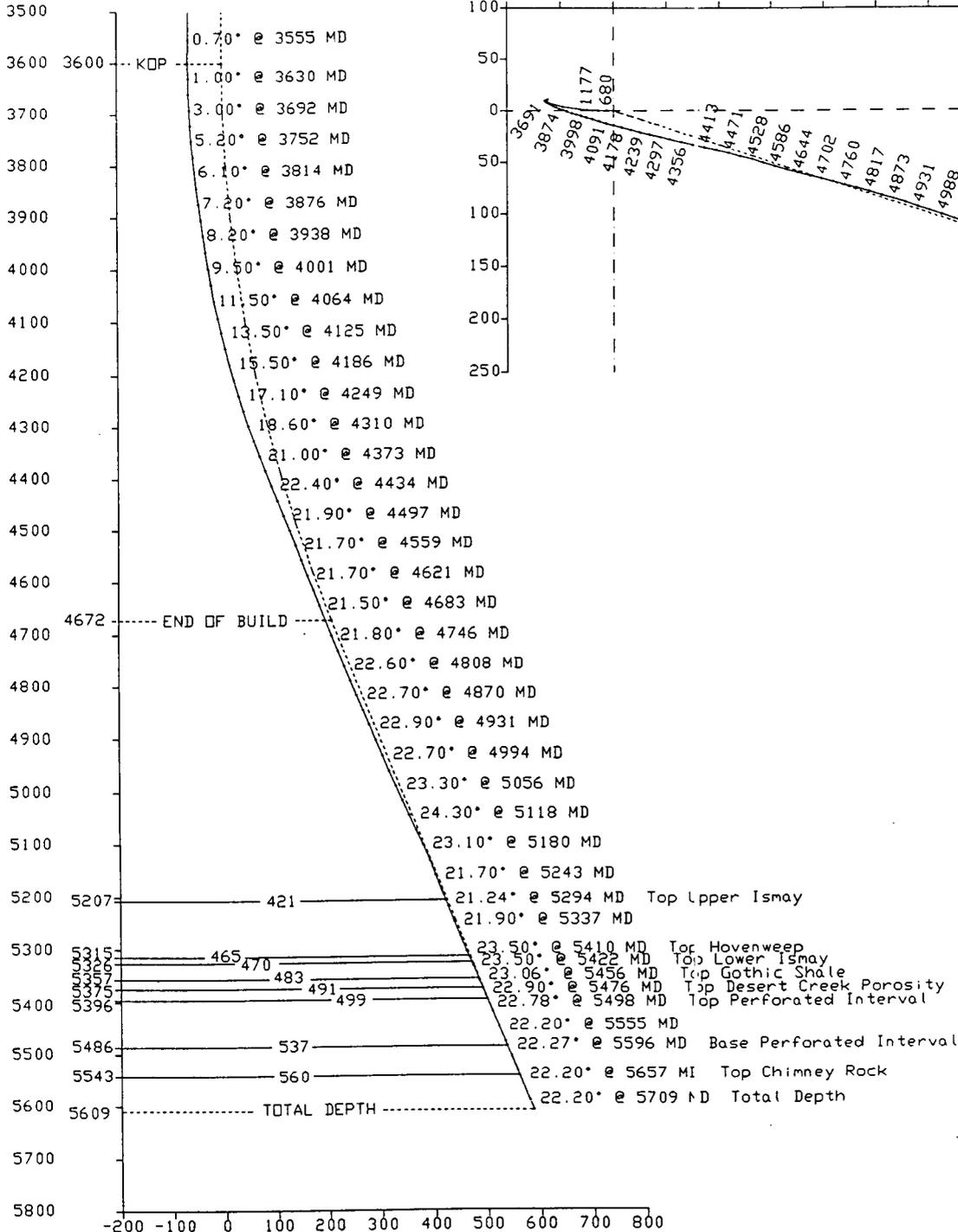


HALLIBURTON

1/18/95 10:55 am

VERTICAL VIEW
 SCALE 100 ft. / DIVISION
 TVD REF: WELLHEAD
 VERTICAL SECTION REF: WELLHEAD

HORIZONTAL VIEW
 SCALE 50 ft. / DIVISION
 SURVEY REF: WELLHEAD



VERTICAL SECTION PLANE: 108.47

HALLIBURTON ENERGY SERVICES - Drilling Systems

Survey Report

Date: 1/19/95
 Time: 9:52 am
 Wellpath ID: survey
 Date Created: 7/22/94
 Last Revision: 1/18/95

Calculated using the Minimum Curvature Method
 Computed using WIN-CADDS REV2.1.B
 Vertical Section Plane: 108.47 deg.

Survey Reference: WELLHEAD
 Vertical Section Reference: WELLHEAD
 Closure Reference: WELLHEAD
 TVD Reference: WELLHEAD

HARKEN SOUTHWEST CORP.
 BIG SKY 6E(6L)-#1
 SEC 6-T42S-R25E
 SAN JUAN CO., UTAH

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)		Closure Dist. (ft)	Dir. (deg.)	Walk Rate (dg/100ft)	Build Rate (dg/100ft)	DLS (dg/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00@	0.00	0.00	0.00	0.00
680.00	1.20	271.70	680.00	679.95	-6.82	0.21 N	7.12W	7.12@	271.70	0.00	0.18	0.18
1177.00	2.90	271.60	497.00	1176.61	-23.83	0.72 N	24.89W	24.90@	271.65	-0.02	0.34	0.34
1670.00	2.50	284.70	493.00	1669.07	-46.50	3.79 N	47.76W	47.91@	274.54	2.66	-0.08	0.15
2170.00	0.80	295.20	500.00	2168.85	-60.85	8.05 N	61.46W	61.95@	277.46	2.10	-0.34	0.34
2666.00	0.50	57.00	496.00	2664.83	-62.94	10.70 N	62.78W	63.65@	279.67	24.56	-0.06	0.23
3167.00	0.20	234.70	501.00	3165.82	-62.09	11.39 N	61.66W	62.70@	280.46	35.47	-0.06	0.14
3555.00	0.70	248.90	388.00	3553.81	-64.32	10.14 N	64.42W	65.22@	278.95	3.66	0.13	0.13
3601.00	0.20	229.70	46.00	3599.81	-64.58	9.99 N	64.75W	65.51@	278.77	-41.74	-1.09	1.12
3630.00	1.00	138.50	29.00	3628.81	-64.38	9.77 N	64.62W	65.35@	278.59	-314.48	2.76	3.53
3661.00	2.00	132.30	31.00	3659.80	-63.66	9.20 N	64.04W	64.70@	278.17	-20.00	3.23	3.26
3692.00	3.00	125.70	31.00	3690.77	-62.39	8.36 N	62.98W	63.53@	277.56	-21.29	3.23	3.35
3722.00	4.10	121.90	30.00	3720.71	-60.59	7.34 N	61.43W	61.87@	276.81	-12.67	3.67	3.75
3752.00	5.20	121.90	30.00	3750.61	-58.23	6.05 N	59.37W	59.68@	275.82	0.00	3.67	3.67
3784.00	5.60	118.70	32.00	3782.47	-55.28	4.54 N	56.77W	56.95@	274.57	-10.00	1.25	1.56
3814.00	6.10	113.50	30.00	3812.31	-52.25	3.20 N	54.02W	54.12@	273.39	-17.33	1.67	2.43
3845.00	6.60	111.50	31.00	3843.12	-48.83	1.89 N	50.85W	50.89@	272.13	-6.45	1.61	1.76
3876.00	7.20	111.50	31.00	3873.90	-45.11	0.52 N	47.39W	47.39@	270.63	0.00	1.94	1.94
3907.00	7.60	109.00	31.00	3904.64	-41.12	0.86 S	43.64W	43.65@	268.87	-8.06	1.29	1.66
3938.00	8.20	107.10	31.00	3935.34	-36.86	2.17 S	39.55W	39.65@	266.86	-6.13	1.94	2.11
3969.00	8.70	106.10	31.00	3966.01	-32.31	3.47 S	35.23W	35.40@	264.37	-3.23	1.61	1.68
4001.00	9.50	106.40	32.00	3997.60	-27.25	4.89 S	30.37W	30.76@	260.85	0.94	2.50	2.50
4032.00	10.20	108.10	31.00	4028.15	-21.95	6.47 S	25.30W	26.12@	255.66	5.48	2.26	2.44
4064.00	11.50	107.90	32.00	4059.57	-15.93	8.33 S	19.57W	21.27@	246.95	-0.62	4.06	4.06
4096.00	12.80	107.40	32.00	4090.86	-9.19	10.37 S	13.16W	16.75@	231.76	-1.56	4.06	4.08
4125.00	13.50	106.10	29.00	4119.10	-2.60	12.27 S	6.84W	14.04@	209.14	-4.48	2.41	2.62
4155.00	14.40	105.50	30.00	4148.21	4.62	14.24 S	0.12 E	14.24@	179.52	-2.00	3.00	3.04
4186.00	15.50	105.20	31.00	4178.16	12.61	16.35 S	7.83 E	18.13@	154.41	-0.97	3.55	3.56
4217.00	16.40	104.70	31.00	4207.97	21.11	18.55 S	16.06 E	24.54@	139.11	-1.61	2.90	2.94
4249.00	17.10	103.60	32.00	4238.61	30.31	20.80 S	25.01 E	32.53@	129.76	-3.44	2.19	2.40
4279.00	17.90	103.60	30.00	4267.22	39.30	22.92 S	33.77 E	40.82@	124.16	0.00	2.67	2.67
4310.00	18.60	103.90	31.00	4296.66	48.97	25.23 S	43.20 E	50.03@	120.28	0.97	2.26	2.28
4341.00	19.80	103.90	31.00	4325.94	59.13	27.68 S	53.10 E	59.88@	117.53	0.00	3.87	3.87
4373.00	21.00	103.80	32.00	4355.93	70.25	30.35 S	63.93 E	70.77@	115.39	-0.31	3.75	3.75
4403.00	22.20	103.40	30.00	4383.82	81.25	32.94 S	74.66 E	81.61@	113.81	-1.33	4.00	4.03
4434.00	22.40	103.00	31.00	4412.50	92.97	35.63 S	86.12 E	93.20@	112.48	-1.29	0.65	0.81
4465.00	22.10	103.20	31.00	4441.20	104.65	38.29 S	97.55 E	104.75@	111.43	0.65	-0.97	1.00
4497.00	21.90	104.30	32.00	4470.87	116.60	41.14 S	109.19 E	116.68@	110.64	3.44	-0.63	1.43
4528.00	21.60	105.30	31.00	4499.66	128.06	44.07 S	120.30 E	128.12@	110.12	3.23	-0.97	1.54
4559.00	21.70	106.80	31.00	4528.47	139.49	47.24 S	131.29 E	139.53@	109.79	4.84	0.32	1.81

HALLIBURTON ENERGY SERVICES - Drilling Systems

Survey Report

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	T O T A L		Closure Dist. (ft)	Dir. (deg.)	Walk Rate (dg/100ft)	Build Rate (dg/100ft)	DLS (dg/100ft)
						Rectangular (ft)	Offsets (ft)					
4590.00	21.30	106.90	31.00	4557.31	150.85	50.53 S	142.16 E	150.87@	109.57	0.32	-1.29	1.30
4621.00	21.70	106.80	31.00	4586.16	162.20	53.82 S	153.04 E	162.22@	109.38	-0.32	1.29	1.30
4652.00	21.90	106.20	31.00	4614.94	173.71	57.09 S	164.07 E	173.72@	109.19	-1.94	0.65	0.97
4683.00	21.50	105.50	31.00	4643.74	185.16	60.22 S	175.10 E	185.17@	108.98	-2.26	-1.29	1.54
4715.00	21.60	105.30	32.00	4673.51	196.90	63.34 S	186.43 E	196.90@	108.77	-0.62	0.31	0.39
4746.00	21.80	104.90	31.00	4702.31	208.34	66.33 S	197.50 E	208.34@	108.56	-1.29	0.65	0.80
4777.00	22.40	105.00	31.00	4731.03	219.98	69.34 S	208.77 E	219.98@	108.37	0.32	1.94	1.94
4808.00	22.60	105.30	31.00	4759.67	231.82	72.44 S	220.22 E	231.83@	108.21	0.97	0.65	0.74
4839.00	22.70	106.10	31.00	4788.28	243.75	75.67 S	231.71 E	243.75@	108.09	2.58	0.32	1.04
4870.00	22.70	106.40	31.00	4816.88	255.70	79.02 S	243.19 E	255.71@	108.00	0.97	0.00	0.37
4901.00	23.00	106.90	31.00	4845.45	267.73	82.47 S	254.73 E	267.74@	107.94	1.61	0.97	1.15
4931.00	22.90	107.20	30.00	4873.07	279.43	85.90 S	265.91 E	279.44@	107.90	1.00	-0.33	0.51
4963.00	23.00	108.00	32.00	4902.54	291.90	89.67 S	277.80 E	291.92@	107.89	2.50	0.31	1.02
4994.00	22.70	108.30	31.00	4931.11	303.94	93.42 S	289.24 E	303.96@	107.90	0.97	-0.97	1.04
5025.00	22.80	109.00	31.00	4959.70	315.93	97.25 S	300.60 E	315.94@	107.93	2.26	0.32	0.93
5056.00	23.30	109.50	31.00	4988.22	328.06	101.25 S	312.06 E	328.08@	107.98	1.61	1.61	1.73
5087.00	24.10	108.60	31.00	5016.61	340.52	105.32 S	323.84 E	340.53@	108.02	-2.90	2.58	2.83
5118.00	24.30	107.80	31.00	5044.88	353.23	109.29 S	335.91 E	353.24@	108.02	-2.58	0.65	1.24
5149.00	24.30	106.30	31.00	5073.14	365.98	113.03 S	348.11 E	366.00@	107.99	-4.84	0.00	1.99
5180.00	23.10	106.30	31.00	5101.52	378.43	116.53 S	360.06 E	378.45@	107.93	0.00	-3.87	3.87
5212.00	21.80	106.90	32.00	5131.10	390.65	120.02 S	371.78 E	390.67@	107.89	1.87	-4.06	4.13
5243.00	21.70	107.90	31.00	5159.89	402.13	123.45 S	382.74 E	402.15@	107.88	3.23	-0.32	1.24
5274.00	21.30	109.80	31.00	5188.73	413.49	127.12 S	393.49 E	413.51@	107.90	6.13	-1.29	2.59
Top Upper Ismay												
5294.00	21.24	110.24	20.00	5207.37	420.74	129.60 S	400.31 E	420.76@	107.94	2.20	-0.30	0.85
5306.00	21.20	110.50	12.00	5218.56	425.09	131.11 S	404.38 E	425.10@	107.96	2.17	-0.33	0.85
5337.00	21.90	111.50	31.00	5247.39	436.46	135.20 S	415.01 E	436.47@	108.04	3.23	2.26	2.55
5368.00	23.00	112.80	31.00	5276.04	448.27	139.66 S	425.97 E	448.28@	108.15	4.19	3.55	3.89
5399.00	23.50	112.80	31.00	5304.52	460.48	144.40 S	437.25 E	460.48@	108.28	0.00	1.61	1.61
Top Hovenweep												
5410.00	23.50	112.76	11.00	5314.61	464.85	146.10 S	441.29 E	464.85@	108.32	-0.36	0.00	0.15
Top Lower Ismay												
5422.00	23.50	112.72	12.00	5325.61	469.62	147.95 S	445.71 E	469.62@	108.36	-0.33	0.00	0.13
5429.00	23.50	112.70	7.00	5332.03	472.40	149.03 S	448.28 E	472.40@	108.39	-0.29	0.00	0.11
Top Gothic Shale												
5456.00	23.06	112.27	27.00	5356.84	483.05	153.11 S	458.14 E	483.05@	108.48	-1.59	-1.63	1.75
5460.00	23.00	112.20	4.00	5360.52	484.61	153.70 S	459.59 E	484.61@	108.49	-1.75	-1.50	1.65
Top Desert Creek Porosity												
5476.00	22.90	112.05	16.00	5375.25	490.84	156.05 S	465.37 E	490.84@	108.54	-0.94	-0.63	0.72
5491.00	22.80	111.90	15.00	5389.07	496.65	158.23 S	470.77 E	496.65@	108.58	-1.00	-0.67	0.77
Top Perforated Interval												
5498.00	22.78	111.81	7.00	5395.53	499.36	159.24 S	473.29 E	499.36@	108.60	-1.29	-0.29	0.57
5523.00	22.70	111.50	25.00	5418.58	509.01	162.81 S	482.27 E	509.01@	108.65	-1.24	-0.32	0.58
5555.00	22.20	111.90	32.00	5448.16	521.21	167.33 S	493.62 E	521.21@	108.73	1.25	-1.56	1.63
5586.00	22.30	112.20	31.00	5476.85	532.92	171.73 S	504.50 E	532.93@	108.80	0.97	0.32	0.49
Base Perforated Interval												
5596.00	22.27	112.23	10.00	5486.10	536.71	173.17 S	508.01 E	536.72@	108.82	0.30	-0.30	0.32
5617.00	22.20	112.30	21.00	5505.54	544.64	176.18 S	515.37 E	544.65@	108.87	0.33	-0.33	0.36
5648.00	22.20	113.40	31.00	5534.24	556.31	180.73 S	526.16 E	556.33@	108.96	3.55	0.00	1.34
Top Chimney Rock												
5657.00	22.20	113.64	9.00	5542.58	559.70	182.08 S	529.28 E	559.72@	108.98	2.67	0.00	1.01
The following survey is projected to Total Depth!												
5709.00	22.20	115.00	52.00	5590.72	579.24	190.17 S	547.18 E	579.25@	109.16	2.62	0.00	0.99

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONFIDENTIAL

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

RECEIVED
JUN 01 1995

5. Lease Designation and Serial No.
14-20-603-373 (BIA)

6. If Indian, Allottee or Tribal Name
Navajo Tribal

7. If Unit or CA, Agreement Designation
DIV. OF OIL, GAS & MINING
N/A

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservation
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Harken Southwest Corporation

3. Address and Telephone No.
P.O. Box 612007, Dallas, TX 75261 214/753-6900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Surface: 2585' FNL & 125' FWL
Section 6-42S-25E

8. Well Name and No.
Big Sky 6E (6L) #1

9. API Well No.
43-037-31714

10. Field and Pool, or Exploratory Area

11. County or Parish, State
San Juan Co., Utah

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casin g
	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Attached please find documentation regarding the correspondence dated April 27, 1995 referencing the cement in the subject wellbore.

Should you have any additional questions, feel free to contact Mr. Marshall Watson @ 214/753-6900 or myself.

cc: State of Utah
Navajo Nation - Minerals Dept.
BIA - Gallup, NM

14. I hereby certify that the foregoing is true and correct

Signed *M. Montgomery* Title Production Administrator Date 5/25/95

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes 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.

Big Sky 6E (6L) #1 - Lease # 14-20-603-373 - API #43-037-31714
Section 6-42S-25E (NW/4) - San Juan County, UT

The cement top of the 2350' is sufficient to cover all brackish water zones below the Chinle. The shallowest water or hydrocarbon bearing zone is the DeChelly @ ±2457'. No other brackish or freshwater sands were noted on the drillers log between the Chinle and the DeChelly.

Harken Southwest personnel notified the BLM, on numerous occasions, prior to completing the well that cement was not to surface. This notification was via sundry notice and verbal communication as follows:

- 01/17/95 Filed sundry notice indicating the setting of the production string & cementing programs as performed.
- 01/23/95 BLM stamped "Accepted for the Record " on the aforementioned sundry with a notation at the bottom "Need top of cement on second stage."
- 01/23/95 Filed completion procedures via sundry notice. On page 1 of the completion procedures under Casing Program, Stage 2 it is noted that there is no cement to surface.
- 01/24/95 BLM - Farmington District Office stamped "Accepted for the Record", there were no stipulations or requirement indicating additional cement to surface would be required nor were any additional remedial requirements or geological concerns attached. In addition, nothing was mentioned to field personnel when the document was picked up at the Farmington office prior to proceeding with the completion of the wellbore.
- 02/02/95 Ran cement bond log. Field personnel called BLM-Farmington and reported cement top of 2350' to Mr. Steve Mason. Harken personnel indicated to Mr. Mason that Harken planned to continue with the completion procedures as filed. No objection was raised by BLM personnel at this time regarding the 2nd Stage cement not being to surface.

On four separate occasions BLM personnel had the opportunity to raise concerns regarding the cement top, request additional cement to surface and/or discuss the "policy" of the Farmington District office regarding cement to surface.

If any secondary cement operations were to have taken place it would have been proper, by industry standards, to do them prior to completing the well. In addition, there is more potential danger to contaminate Chinle and other fresh water zones by perforating the 5-1/2" production casing which provides an absolute mechanism for a casing leak. With our corrosion inhibition programs, the fact that no water is being produced from the completed zone and new heavy wall 5-1/2" casing was placed in the wellbore, the chances of any corrosion or degradation of casing metal is minimal to none. It is the opinion of Harken's technical and professional staff that the best means of protecting the fresh water sands is to not perform any remedial cement work that requires any type of perforations to the casing.

It is not feasible to use small diameter tubing to a depth of 1400' in an annulus with dimensions of 7-5/8" x 6.05" (Collar OD of 5-1/2") with centralizers as additional obstructions in a hole that has been in place since January.

Harken Southwest hereby request a waiver of your standard policy

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

CONFIDENTIAL

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.
14-20-603-373 (BIA)

6. If Indian, Allottee or Tribe Name
Navajo

7. If Unit or CA, Agreement Designation
N/A

8. Well Name and No.
Big Sky 6E (6L) #1

9. API Well No.
43-037-31714

10. Field and Pool, or Exploratory Area
Wildcat

11. County or Parish, State
San Juan Co., UT

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

Harken Southwest Corporation

3. Address and Telephone No.

P. O. Drawer 612007, Dallas, TX 75261 (214) 753-6900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Surface: 2585' FNL & 125' FWL (NW/SW)
Section 6-42S-25E

RECEIVED JAN 6 1 1995

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other Status Update
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of routine completion or Completion or Recompletion Report and Log in

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Attached please find the chronological activity on the subject well.

Production casing of 138 jts of 5-1/2" 15.5#, K-55, 8 rd, LT&C was stage cemented as outlined on 1/17/95. The rig was released on 1-16-95 @ 2400 hrs.

Completion procedures will be submitted for approval, since they were not included in the APD. In addition, a cement bond log will be ran at the appropriate time.

PLEASE CONSIDER THIS SUBMITTAL **** CONFIDENTIAL ****

CC: State of Utah

Need top of cement on second stage.

Rec called in 2/12/95

14. I hereby certify that the foregoing is true and correct
Signed: Fachelle Butzger Title: Production Administrator Date: 1/17/95

(This space for Federal or State office use)

Approved by: _____ Title: _____ Date: _____
Conditions of approval, if any:

ACCEPTED FOR RECORD

Title 18 U.S.C. Section 1001, makes 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.

JAN 23 1995

*See instruction on Reverse Side

OPERATOR

FARMINGTON DISTRICT OFFICE

RV

Sum

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT --" for such proposals

SUBMIT IN TRIPLICATE

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.
14-20-603-373 (BIA)

7. If Indian, Allottee or Tribe Name
Navajo

7. If Unit or CA Agreement Designation
N/A

8. Well Name and No.
Big Sky 6E (6L) #1

9. API Well No.
43-037-31714

10. Field and Pool, or Exploratory Area
Wildcat

11. County or Parish, State
San Juan Co., Utah

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Harken Southwest Corporation

3. Address and Telephone No.
P. O. Box 612007, Dallas, TX 75261 (214) 753-6900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Surface: 2585' FNL & 125' FWL (NW/NW) Sec 6-42S-25E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans	<input type="checkbox"/> New Construction
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> Non-Routine Fracturing	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Conversion to Injection	
	<input type="checkbox"/> Casing Repair		
	<input type="checkbox"/> Altering Casing		
	<input checked="" type="checkbox"/> Other <u>Completion</u>	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

13. Describe Proposed or Completed Operations (Clearly state all pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Attached please find the completion procedures for the subject well.

The well reached TD on 1-16-95 and a complete chronological report was submitted 1-17-95.

Should any questions arise please contact the undersigned or Mr. Marshall Watson at the above address/telephone number.

***** PLEASE CONSIDER THIS SUBMITTAL - CONFIDENTIAL - *****

14. I hereby certify that the foregoing is true and correct

Signed Rachelle Montgomery Production Administrator Date 1/23/95

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

ACCEPTED FOR RECORD

Title 18 U.S.C. Section 1001, makes 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.

*See Instruction on Reverse Side

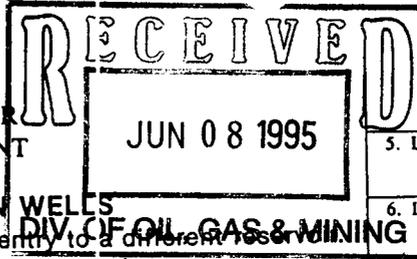
FARMINGTON DISTRICT OFFICE

BY

OPERATOR

Sum

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT



FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993
5. Lease Designation and Serial No.
14-20-603-373 (BIA)

SUNDRY NOTICES AND REPORTS ON WELLS
DIV. OF OIL, GAS & MINING

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
 HARKEN SOUTHWEST CORPORATION

3. Address and Telephone No.
 P. O. Box 612007, Dallas, TX 75261 (214) 753-6900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
 Section 6-42S-25E (NW/4)
 Surface: 2585' FNL & 125' FWL

6. Indian, Allottee or Tribe Name
 Navajo Tribal

7. If Unit or CA, Agreement Designation
 N/A

8. Well Name and No.
 Big Sky 6E (6L) #1

9. API Well No.
 43-037-31714

10. Field and Pool, or Exploratory Area

11. County or Parish, State
 San Juan Co., UT

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Site Security</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Attached please find the site security diagram for the subject well.

CC: State of Utah
 Navajo Nation - Minerals Dept
 BIA - Gallup, NM

14. I hereby certify that the foregoing is true and correct
 Signed M. C. Watson /M.C. Watson Title V.P. Engineering Date 5/21/95

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
 Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes 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.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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SEP 07 1995

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.

FOIL GAS & MIN

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No.
2. Name of Operator <u>Harken Southwest Corporation</u>	6. If Indian, Allottee or Tribe Name <u>NAVAJO</u>
3. Address and Telephone No. <u>P.O. Box 612007 Dallas, Texas 75261-2007 (214) 753-6900</u>	7. If Unit or CA, Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) <u>See Attached List</u>	8. Well Name and No. <u>See Attached List</u>
	9. API Well No. <u>43037-31714</u>
	10. Field and Pool, or Exploratory Area <u>See Attached List</u>
	11. County or Parish, State <u>San Juan, Utah</u>

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other <u>Flaring during plant shut-down</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Pursuant to the attached notice from Elkhorn Operating, Harken Southwest request permission to vent/flare all non-lease use gas from September 18, 1995 thru September 22, 1995 or until the Aneth Plant resumes operation.

Attached is a list of wells which will be affected by the plant shut down. The list is compiled in API number order.

Should any questions arise, please contact Mr. Richard Cottle, Farmington, New Mexico @ (505) 327-5531 or the undersigned.

cc: Navajo Nation
State of Utah

14. I hereby certify that the foregoing is true and correct

Signed Richard Montgomery Title Production Administrator Date Sept 6, 1995

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes 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.

*See Instruction on Reverse Side

HARKEN SOUTHWEST CORPORATION

Request permission to flare/vent gas production on the following wells during the shut-down of the Aneth Plant Monday, September 18 thru Friday, September 22, 1995.

<u>Well Name</u>	<u>Sec-Twnshp-Rng</u>	<u>API Number</u>
Navajo Tribal 23-13	13-40S-24E	43-037-30971
Navajo Tribal 41-2	02-42S-24E	43-037-31041
Sahgzie #1	05-42S-24E	43-037-31472
Anasazi #1	05-42S-24E	43-037-31478
Cajon Mesa 8D-1	08-40S-25E	43-037-31497
Monument 8N-2	08-40S-25E	43-037-31509
Runway 10G-1	10-40S-25E	43-037-31515
Monument 17E	17-40S-25E	43-037-31547
Runway 10E-2	10-40S-25E	43-037-31550
Blue Hogan 1J-1	01-42S-23E	43-037-31562
Anasazi 5L-3	05-42S-24E	43-037-31572
Brown Hogan 1A-2	01-42S-23E	43-037-31573
Runway 10C-5A	10-40S-25E	43-037-31597
North Heron 35C	35-41S-25E	43-037-31616
Burro 31-I	31-41S-24E	43-037-31708
Jack 31G	31-41S-24E	43-037-31709
Mule 31M	31-41S-24E	43-037-31710
Big Sky 6E (6L)	06-42S-25E	43-037-31714
Hillside 6C-1	06-42S-25E	43-037-31721



ELKHORN OPERATING COMPANY
ANETH PLANT
P.O. BOX 70
MONTEZUMA CREEK, UTAH 84534
Memorandum

To: See Distribution List
From: Gene Gruette
Date: August 18, 1995
Subject: ANETH PLANT SHUTDOWN

Aneth Plant will be shut down on September 18, 1995 to make necessary repairs to the cooling tower, inspect and clean gas coolers, and repair other equipment which requires a plant shutdown.

We plan to have the plant started back up the afternoon of Friday, September 22, 1995.

Each operator will need to make whatever contacts with regulatory agencies and gas marketers, etc. they deem necessary.

Should you have questions, call the writer at (801)631-3254.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other	5. Lease Designation and Serial No. 14-20-603-373 (BIA)
2. Name of Operator Harken Southwest Corporation	6. If Indian, Allottee or Tribe Name Navajo Nation
3. Address and Telephone No. P.O. Box 612007, Dallas, Texas 75261-2007 (972)753-6900	7. If Unit or CA, Agreement Designation N/A
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) NW/SW Section 6-42S-25E Surface: 2585' FNL & 125' FWL	8. Well Name and No. Big Sky 6E (6L)
	9. API Well No. 43-037-31714
	10. Field and Pool, or Exploratory Area
	11. County or Parish, State San Juan, Utah

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Venting</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Elkhorn experienced a line leak; verbal permission to vent gas was obtained from the Farmington District BLM office. In order to continue production, it was necessary to vent 92 MCF of gas August 13 & 14, 1997.

CC: State of Utah
Navajo Nation
BIA - Gallup



14. I hereby certify that the foregoing is true and correct

Signed [Signature] Title Production Administrator Date 08/26/97

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

43-037-31714

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
 Harken Southwest Corporation

3. Address and Telephone No.
 P.O. Box 612007 Dallas, Texas 75261-2007 (972) 753-6900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
 40, 41 & 42S - 23, 24 & 25S
 Various Sections

5. Lease Designation and Serial No.

6. If Indian, Allottee or Tribe Name
 Navajo Nation

7. If Unit or CA, Agreement Designation

8. Well Name and No.
 See attached

9. API Well No.
 See attached

10. Field and Pool, or Exploratory Area

11. County or Parish, State
 San Juan County, UT

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent <input checked="" type="checkbox"/> Subsequent Report <input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casin; <input checked="" type="checkbox"/> Other <u>Gas venting</u>
	<input type="checkbox"/> Change of Plans <input type="checkbox"/> New Construction <input type="checkbox"/> Non-Routine Fracturing <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Dispose Water

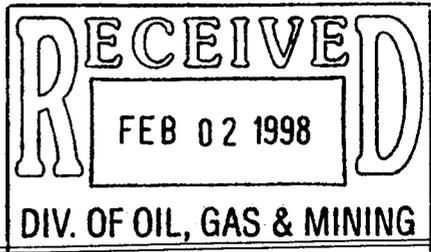
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent date, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Attached please find the summary sheet for the gas vented by Harken Southwest during December, 1997 and January, 1998 due to the explosion and subsequent problems at the Aneth Gas Plant.

If additional information is required, please contact the undersigned at (972) 753-6900.

CC: State of Utah
 Navajo Nation - Minerals Dept
 BIA - Gallup, NM



14. I hereby certify that the foregoing is true and correct

Signed *Lachelle Montgomery* Title Production Administrator Date 01/29/98

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
 Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes 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.

IARKEN SOUTHWEST CORPORATION

Gas Vented during Aneth Plant Shut-Down (12/97 & 1/98)

Page 1 of 3

Anasazi #1 43-037-31478 SW/NW Sec 5-42S-24E	Anasazi 5L-3 43-037-31572 NW/SW Sec 5-42S-24E	Sahgzie 1 43-037-31472 SW/NW Sec 5-42S-24E	Anasazi 6H-1 43-037-31744 SE/NE Sec 6-42S-24E	Navajo Tribal 41-2 43-037-31041 NE/NE Sec 2-42S-24E	Navajo Tribal 23-13 43-037-30971 NE/SW Sec 13-40S-24E	Runway 10C-5A 43-037-31597 NE/NW Sec 10-40S-25E	Runway 10G-1 43-037-31515 SW/NE Sec 10-40S-25E
---	---	--	---	--	--	---	--

Vented Gas (MCF) December 1997

25-Dec	88	58	29	14		12	84	158
26-Dec	88	58	28	15		12	84	157
27-Dec	82	61	24	15		12	84	157
28-Dec	85	61	30	14		12	84	157
29-Dec	90	58	25	16	8	12	84	157
30-Dec	88	57	30	16		12	84	162
31-Dec	79	52	26	16		12	84	157
Dec Total	600	405	192	106	8	84	588	1105

Vented Gas (MCF) January 1998

1-Jan	79	57	29	16	7	12	84	162
2-Jan	89	57	30	15		12	84	162
3-Jan	87	52	30	16		12	84	162
4-Jan	86	50	29	16		12	84	162
5-Jan	107	47	29	16	7	12	84	162
6-Jan	76	75	28	21		10	84	162
7-Jan	84	72	29	22		11	84	157
8-Jan	79	75	30	22		9	84	157
9-Jan	77	70	29	21	11	12	84	147
10-Jan	0	0	0	0	0	2	0	136
11-Jan	0	0	0	0	0	0	0	0
12-Jan	0	0	0	0	0	0	0	0
13-Jan	0	0	0	0	0	0	0	0
14-Jan	0	0	0	0	0	0	0	0
15-Jan	0	0	0	0	0	0	0	0
16-Jan	0	0	0	0	0	0	0	0
17-Jan	0	0	0	0	0	0	0	0
18-Jan	81	67	28	22	0	0	0	0
19-Jan	81	67	28	22	0	5	99	0
20-Jan	80	64	30	21	0	2	12	0
Jan Total	1006	753	349	230	25	111	867	1569
Grand Total	1606	1158	541	336	33	195	1455	2674

HARKEN SOUTHWEST CORPORATION
Gas Vented during Aneth Plant Shut-Down (12/97 & 1/98)

Page 2 of 3

	Runway 10E-2 43-037-31550 SW/NW Sec 10-40S-25E	Momentum 8N-2 43-037-31509 SE/SW Sec 8-40S-25E	Momentum 17E-2 43-037-31547 SW/NW Sec 17-40S-25E	Cajon Mesa 8D-1 43-037-31497 NW/NW Sec 8-40S-25E	Blue Hogan 1J-1 43-037-31562 NW/SE Sec 1-42S-23E	Brown Hogan 1A-2 43-037-31573 NE/NE Sec 1-42S-23E
Vented Gas (MCF) December 1997						
25-Dec	64	22		22	32	20
26-Dec	64	22	23	22	32	20
27-Dec	64	22		22	32	22
28-Dec	64	22		22	32	22
29-Dec	64	22	22	22	22	20
30-Dec	64	22		25	22	20
31-Dec	64	19		25	22	20
Dec Total	448	151	45	160	204	144
Vented Gas (MCF) January 1998						
1-Jan	64	20	22	25	22	21
2-Jan	64	22		25	20	20
3-Jan	64	22		25	20	20
4-Jan	64	22		25	22	20
5-Jan	64	21	15	25	22	20
6-Jan	64	21		25	22	22
7-Jan	64	21		25	22	22
8-Jan	64	21		25	22	22
9-Jan	64	22	22	25	22	22
10-Jan	8	0	0	22	40	4
11-Jan	0	0	0	0	0	0
12-Jan	0	0	0	0	0	0
13-Jan	0	0	0	0	0	0
14-Jan	0	0	0	0	0	0
15-Jan	0	0	0	0	0	0
16-Jan	0	0	0	0	0	0
17-Jan	0	0	0	0	44	21
18-Jan	0	0	0	0	44	21
19-Jan	69	23	14	21	44	23
20-Jan	13	4		5	10	23
Jan Total	666	219	73	273	332	256
Grand Total	1114	370	118	433	536	400

HARKEN SOUTHWEST CORPORATION
Gas Vented during Aneth Plant Shut-Down (12/97 & 1/98)

Page 3 of 3

	Mule 31M 43-037-31710 SW/SW Sec31-41-24E	Big Sky 6E(6L) 43-037-31714 NW/SW Sec 6-42S-26E	Mule 31-K(N) 43-037-31617 NE/SW Sec 31-41S-24E	DAILY TOTALS
Vented Gas (MCF) December 1997				
25-Dec	25	62	25	715
26-Dec	25	94		744
27-Dec	20	94	21	730
28-Dec	19	90	21	735
29-Dec	28	62	29	753
30-Dec	22	62		686
31-Dec	23	62		661
Dec Total	162	526	96	5024
Vented Gas (MCF) January 1998				
1-Jan	22	62		704
2-Jan	23	63		686
3-Jan	23	63		680
4-Jan	23	63		678
5-Jan	23	63		717
6-Jan	22	63		693
7-Jan	23	63	21	720
8-Jan	23	63	21	717
9-Jan	23	64	21	736
10-Jan	0	64	0	276
11-Jan	0	0	0	0
12-Jan	0	0	0	0
13-Jan	0	0	0	0
14-Jan	0	0	0	0
15-Jan	0	0	0	0
16-Jan	0	0	0	0
17-Jan	0	0	0	0
18-Jan	23	73	0	359
19-Jan	25	73	21	613
20-Jan	23	2	23	312
Jan Total	276	779	107	7891
Grand Total	438	1305	203	12915

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
 1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS

HARKEN
 Susan Herrera
~~RIM~~ SOUTHWEST CORPORATION
 C/O HOLCOMB OIL AND GAS, INC.
 PO BOX 2058
 FARMINGTON, NM 87499-2058

UTAH ACCOUNT NUMBER: N9290
 REPORT PERIOD (MONTH/YEAR): 02/2001
 AMENDED REPORT (Highlight Changes)

WELL NAME			Producing Zone	Well Status	Well Type	Days Oper	Production Volumes		
API Number	Entity	Location					OIL (BBL)	GAS (MCF)	WATER (BBL)
NAVAJO TRIBAL 23-13			DSCR	P	OW	28	1,071	551	2,296
4303730971	09420	40S 24E 13							
NAVAJO TRIBAL 41-2			DSCR	P	OW	19	174	23	0
4303731041	09437	42S 24E 02							
NAVAJO TRIBAL 32-26			DSCR	P	OW	8	104	291	0
4303731060	09990	40S 22E 26							
NAVAJO TRIBAL 14-10			DSCR	P	OW	28	93	0	0
4303730977	10130	40S 24E 05							
SAHGZIE 1			DSCR	P	OW	28	1,025	476	0
4303731472	11032	42S 24E 05							
ANASAZI 1			DSCR	P	OW	28	1,308	1,349	0
4303731478	11042	42S 24E 05							
CAJON MESA 8D-1			DSCR	P	OW	27	245	355	61
4303731497	11074	40S 25E 08							
MONUMENT 8N-2			DSCR	P	OW	28	239	496	0
4303731509	11087	40S 25E 08							
RUNWAY 10G-1			DSCR	S	OW	28	1,412	1,613	432
4303731515	11105	40S 25E 10							
RUNWAY 10E-2			DSCR	S	GW	27	279	917	0
4303731550	11128	40S 25E 10							
MONUMENT 17E-2			DSCR	S	OW	26	157	548	0
4303731547	11139	40S 25E 17							
LONE MOUNTAIN CREEK 12F-1			DSCR	P	OW	22	149	533	12
4303731545	11148	42S 24E 12							
RUNWAY 10C-5A			DSCR	P	OW	24	221	899	40
4303731597	11152	40S 25E 10							
TOTALS							6477	8051	2841

COMMENTS: _____

I hereby certify that this report is true and complete to the best of my knowledge.

Date: April 13, 2001

Signature

Susan M. Herrera
 Susan M. Herrera

RECEIVED

Telephone Number

(505) 326-0550

APR 17 2001

DIVISION OF
 OIL, GAS AND MINING

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
 1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS

Susan Herrera
 RIM SOUTHWEST CORPORATION
 C/O HOLCOMB OIL AND GAS, INC.
 PO BOX 2058
 FARMINGTON, NM 87499-2058

UTAH ACCOUNT NUMBER: N9290
 REPORT PERIOD (MONTH/YEAR): 02/2001
 AMENDEL REPORT (Highlight Changes)

WELL NAME			Producing Zone	Well Status	Well Type	Days Oper	Production Volumes			
API Number	Entity	Location					OIL (BBL)	GAS (MCF)	WATER (BBL)	
✓	BLUE HOGAN 1J-1									
4303731562	11161	42S 23E 01	DSCR	P	OW	27	800	778	36	
✓	ANASAZI 5L-3									
4303731572	11207	42S 24E 05	DSCR	P	OW	28	1,187	1,284	0	
✓	BROWN HOGAN 1A-2									
4303731573	11215	42S 23E 01	DSCR	P	OW	28	297	504	0	
✓	STERLING 36L-1									
4303731595	11224	41S 23E 36	DSCR	S	OW	0	0	0	0	
✓	MULE 31K (N)									
4303731617	11326	41S 24E 31	DSCR	P	OW	28	308	348	73	
✓	NORTH HERON 35C									
4303731616	11479	41S 25E 35	DSCR	S	OW	0	0	0	0	
✓	BURRO 31I									
4303731708	11496	41S 24E 31	DSCR	P	OW	28	489	0	0	
✓	JACK 31G									
4303731709	11497	41S 24E 31	DSCR	S	OW	0	0	0	0	
✓	MULE 31M									
4303731710	11498	41S 24E 31	DSCR	P	OW	28	1,074	333	120	
✓	BIG SKY 6E (6L) 1									
4303731714	11722	42S 25E 06	DSCR	P	OW	26	262	551	0	
✓	CLAY HILL CANYON 32D									
4303731741	11734	41S 25E 32	DSCR	TA	NA	0	0	0	0	
✓	ANASAZI 6H-1									
4303731744	11773	42S 24E 06	DSCR	P	OW	28	205	303	0	
TOTALS								4622	4101	229

COMMENTS: _____

I hereby certify that this report is true and complete to the best of my knowledge.

Date: April 13, 2001

Signature

Susan M. Herrera
 Susan M. Herrera

RECEIVED

Telephone Number (505) 326-0550

APR 13 2001

DIVISION OF
 OIL, GAS AND MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: SEE ATTACHED
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo
1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <u>SEE ATTACHED</u>		7. UNIT or CA AGREEMENT NAME: SEE ATTACHED
2. NAME OF OPERATOR: RIM Southwest Corporation		8. WELL NAME and NUMBER: SEE ATTACHED
3. ADDRESS OF OPERATOR: P.O. Box 145 CITY Farmington STATE NM ZIP 87499		9. API NUMBER: SEE ATTACH
4. LOCATION OF WELL FOOTAGES AT SURFACE: SEE ATTACHED		10. FIELD AND POOL, OR WILDCAT: Greater Aneth
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: _____		COUNTY: San Juan
		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Corporate Name Change</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLIETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
Corporate Name Change from Harken Southwest Corporation to RIM Southwest Corporation, effective December 1, 2000 for reporting requirements.

RECEIVED
DIVISION OF
OIL, GAS AND MINING

NAME (PLEASE PRINT) <u>W. J. Holcomb</u>	TITLE <u>Vice-President</u>
SIGNATURE <u><i>W. J. Holcomb</i></u>	DATE <u>4/23/2001</u>

(This space for State use only)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.
See Attached

6. If Indian, Allottee or Tribe Name

Navajo Nation

7. If Unit or CA, Agreement Designation

8. Well Name and No.

9. API Well No.

10. Field and Pool, or Exploratory Area

11. County or Parish, State

**San Juan County
Utah**

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

RIM SOUTHWEST CORPORATION

3. Address and Telephone No.

P. O. Box 145, Farmington, NM 87499 (505)327-5531

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Vent/Flare Gas</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Please be advised that RIM Southwest Corporation is requesting approval to vent gas until September 14, 2001. After September 14, we request permission to flare the gas until the Aneth Plant is back on line.

Attachment

cc: State of Utah
Navajo Nation-Minerals
Navajo Nation EPA - Air Quality
BIA - Gallup, NM

Accepted by the
Utah Division of
Oil, Gas and Mining

Date: 9/17/01
By: [Signature]

Ext. Oct 15, 2001

Federal Approval Of This
Action Is Necessary

COPY SENT TO OPERATOR

Date: 9-17-01
Initials: [Signature]

14. I hereby certify that the foregoing is true and correct

Signed [Signature]

Title W. J. Holcomb, Vice President Date 8/29/01

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

RIM SOUTHWEST CORPORATION

LEASE NUMBER	WELL NAME	SEC-TWN-RNG	ESTIMATED GAS VENTED MCF/DAY
1420603373	Big Sky 6E (6L)	06-42S-25E	19
NOC 14205297 (NMNM 5756)	Monument 8N-2	08-40S-25E	18
(NMNM 5757)	Cajon Mesa 8D-1	08-40S-25E	0
NOG 8308-1033	Navajo Tribal 23-13	13-40S-24E	23
	Navajo Tribal 14-10	10-40S-24E	1
	Navajo Tribal 41-2	02-42S-24E	8
	Navajo Tribal 32-26	26-40S-22E	8
NOG 8707-1162	Sahgzie #1	05-42S-24E	16
	Anasazi #1	05-42S-24E	67
NOG 8707-1170	Runway 10G-1	10-40S-25E	SI
	Runway 10C-5A	10-40S-25E	SI
NOG 8707-1190	Runway 10E-2	10-40S-25E	17
NOG 8707-1191	Monument 17E-2	17-40S-25e	0
NOG 8707-1206	Blue Hogan 1J-1	01-42S-23E	27
	Brown Hogan 1A-2	01-42S-23E	18
NOG 8707-12321	Burro 31-1	31-41S-24E	1
	Jack 31G	31-41S-24E	SI
	Mule 31K (N)	31-41S-24E	7
	Mule 31M	31-41S-24E	24
TOTAL AVERAGE			254

-43-037-31114
-43-037-31509
-43-037-31777
-43-037-31771
-43-037-31509
-43-037-31841
-43-037-31000
-43-037-31422
-43-037-31425
-43-037-31515
-44-012-31597
-43-037-31550
-43-037-31597
-43-037-31562
-315-037-31597
-43-037-31708
-43-037-31707
-43-037-31615
-43-037-31710



2030 AFTON PLACE
 FARMINGTON, N.M. 87401
 (505) 325-6622

ANALYSIS NO. HSC80013
 CUST. NO. 33500- 10095

WELL/LEASE INFORMATION

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	MULE 31M	PRESSURE	25 PSIG
COUNTY/ STATE	SAN JUAN UT	SAMPLE TEMP	76 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	6/30/98
FORMATION		SAMPLED BY	FGM
CUST.STN.NO.	202E412018	FOREMAN/ENGR.	STEVEN J. MANSUR

REMARKS

ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	1.332	0.0000	0.00	0.0129
CO2	0.112	0.0000	0.00	0.0017
METHANE	57.114	0.0000	578.17	0.3164
ETHANE	19.739	5.2802	350.11	0.2049
PROPANE	11.863	3.2694	299.17	0.1806
I-BUTANE	1.498	0.4900	48.83	0.0301
N-BUTANE	4.080	1.2864	133.41	0.0819
I-PENTANE	1.011	0.3699	40.54	0.0252
N-PENTANE	1.215	0.4401	48.82	0.0303
HEXANE PLUS	2.036	0.8883	104.67	0.0655
TOTAL	100.000	12.0243	1,603.72	0.9494

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0067
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,614.5
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,586.4
REAL SPECIFIC GRAVITY		0.9559

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,605.7
DRY BTU @ 14.696	1,610.7
DRY BTU @ 14.730	1,614.5
DRY BTU @ 15.025	1,646.8

CYLINDER #	SJ99
CYLINDER PRESSURE	10 PSIG
DATE RUN	7/1/98
ANALYSIS RUN BY	DAVE MARTIN



2030 AFTON PLACE
 FARMINGTON, N.M. 87401
 (505) 325-6622

ANALYSIS NO. HSC80012
 CUST. NO. 33500- 10015

WELL/LEASE INFORMATION

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	MULE 31K	PRESSURE	24 PSIG
COUNTY/ STATE	SAN JUAN UT	SAMPLE TEMP	84 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	6/30/98
FORMATION	DESERT CREEK	SAMPLED BY	FGM
CUST.STN.NO.	202E340052	FOREMAN/ENGR.	STEVEN J. MANSUR

REMARKS

ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	1.925	0.0000	0.00	0.0186
CO2	0.133	0.0000	0.00	0.0020
METHANE	63.617	0.0000	643.99	0.3524
ETHANE	16.771	4.4862	297.47	0.1741
PROPANE	9.543	2.6301	240.66	0.1453
I-BUTANE	1.205	0.3942	39.28	0.0242
N-BUTANE	3.315	1.0452	108.39	0.0665
I-PENTANE	0.794	0.2905	31.84	0.0198
N-PENTANE	0.944	0.3419	37.93	0.0235
HEXANE PLUS	1.753	0.7648	90.12	0.0564
TOTAL	100.000	9.9529	1,489.68	0.8829

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z) 1.0056
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z) 1,498.0
 BTU/CU.FT (WET) CORRECTED FOR (1/Z) 1,472.0
 REAL SPECIFIC GRAVITY 0.8877

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650 1,489.9
 DRY BTU @ 14.696 1,494.6
 DRY BTU @ 14.730 1,498.0
 DRY BTU @ 15.025 1,528.0

CYLINDER # 048A
 CYLINDER PRESSURE 24 PSIG
 DATE RUN 7/1/98
 ANALYSIS RUN BY CHELLE DURBIN



2030 AFTON PLACE
 FARMINGTON, N.M. 87401
 (505) 325-6622

ANALYSIS NO. HSC80009
 CUST. NO. 33500- 10080

WELL/LEASE INFORMATION

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	JACK 31G	PRESSURE	28 PSIG
COUNTY/ STATE	SAN JUAN UT	SAMPLE TEMP	76 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	6/30/98
FORMATION		SAMPLED BY	FGM
CUST.STN.NO.	202E410005	FOREMAN/ENGR.	STEVEN J. MANSUR

REMARKS

ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	1.975	0.0000	0.00	0.0191
CO2	0.062	0.0000	0.00	0.0009
METHANE	70.488	0.0000	713.55	0.3904
ETHANE	13.388	3.5813	237.46	0.1390
PROPANE	7.057	1.9449	177.97	0.1075
I-BUTANE	1.012	0.3310	32.99	0.0203
N-BUTANE	2.613	0.8239	85.44	0.0524
I-PENTANE	0.750	0.2744	30.08	0.0187
N-PENTANE	0.920	0.3332	36.97	0.0229
HEXANE PLUS	1.735	0.7570	89.20	0.0558
TOTAL	100.000	8.0458	1,403.66	0.8271

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z) 1.0049
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z) 1,410.5
 BTU/CU.FT (WET) CORRECTED FOR (1/Z) 1,386.0
 REAL SPECIFIC GRAVITY 0.8311

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650 1,402.9
 DRY BTU @ 14.696 1,407.3
 DRY BTU @ 14.730 1,410.5
 DRY BTU @ 15.025 1,438.8

CYLINDER # 004
 CYLINDER PRESSURE 12 PSIG
 DATE RUN 7/1/98
 ANALYSIS RUN BY DAVE MARTIN



2030 AFTON PLACE
 FARMINGTON, N.M. 87401
 (505) 325-6622

ANALYSIS NO. HSC00018
 CUST. NO. 33500- 10035

WELL/LEASE INFORMATION

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	BIG SKY 6E	PRESSURE	17 PSIG
COUNTY/ STATE	SAN JUAN UT	SAMPLE TEMP	21 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	12/23/00
FORMATION		SAMPLED BY	FGM
CUST.STN.NO.	202E430640	FOREMAN/ENGR.	STEVEN J. MANSUR

REMARKS

ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	1.658	0.0000	0.00	0.0160
CO2	0.037	0.0000	0.00	0.0006
METHANE	66.226	0.0000	670.41	0.3668
ETHANE	17.222	4.6069	305.47	0.1788
PROPANE	9.526	2.6254	240.24	0.1450
I-BUTANE	1.012	0.3310	32.99	0.0203
N-BUTANE	2.724	0.8589	89.07	0.0547
I-PENTANE	0.496	0.1815	19.89	0.0124
N-PENTANE	0.553	0.2003	22.22	0.0138
HEXANE PLUS	0.546	0.2382	28.07	0.0176
TOTAL	100.000	9.0422	1,408.36	0.8260

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0048
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,415.4
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,390.8
REAL SPECIFIC GRAVITY		0.8302

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,407.7	CYLINDER #	007
DRY BTU @ 14.696	1,412.2	CYLINDER PRESSURE	17 PSIG
DRY BTU @ 14.730	1,415.4	DATE RUN	12/28/00
DRY BTU @ 15.025	1,443.8	ANALYSIS RUN BY	GINA HANON

CQM, IN ON-SITE GAS ANALYSIS NIT 2
 1427 W. AZTEC BLVD. #3
 AZTEC, NM 87410 505-333-2003

Source: ELKHORN FIELD SERVICES Report Date: 06/19/2001 13:48:14
 Station #: 78-153 Sample Date: 06/13/2001
 Station Name: BLUE/BROWN HOGAN Flowing Pressure: 0 psig
 Field: RIM SOUTHWEST Flowing Temp.: 0 F

Method: c:\mti\ezchrom\200\methods\H2S_1.MET
 File: c:\mti\ezchrom\200\chrom\78_15306.2

Gas Analysis by Chromatograph

Name	Mole %	BTU	RD	GPM
Nitrogen	3.577	0.000	0.035	
Methane	55.640	563.264	0.308	
CO2	0.033	0.000	0.001	
Ethane	17.739	314.636	0.184	4.744
H2S (APPROX)	0.000	0.000	0.000	
Propane	11.983	302.202	0.182	3.302
i-Butane	1.627	53.031	0.033	0.532
n-Butane	4.370	142.892	0.088	1.378
i-Pentane	1.194	47.881	0.030	0.437
n-Pentane	1.465	58.866	0.036	0.531
Hexanes	1.955	93.193	0.058	0.804
Heptanes	0.373	20.572	0.013	0.172
Octanes	0.044	2.756	0.002	0.023
Nonanes	0.000	0.000	0.000	

Ideal Total 100.000 1599.293 0.969 11.922
 Unnormalized Total 111.244

Gross BTU/Real Cu. Ft. (@ 60 deg F, 14.730)	Gasoline Content
Dry = 1610.156	Propane GPM = 3.302
Sat. = 1583.743	Butane GPM = 1.910
Actual = 1610.156	Gasoline GPM = 1.966
(0.000 lbs. water/MMCF)	26# Gasoline GPM = 3.344
	Total GPM = 11.922

Real Relative Density Calculated = 0.9755
 On-Site Relative Density = 0.0000

Gas Compressibility = 0.9933



2030 AFTON PLACE
 FARMINGTON, N.M. 87401
 (505) 325-6622

ANALYSIS NO. HSC00010
 CUST. NO. 33500- 10090

WELL/LEASE INFORMATION

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	MONUMENT 17-E-2	PRESSURE	20 PSIG
COUNTY/ STATE	SAN JUAN UT	SAMPLE TEMP	47 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	12/21/00
FORMATION		SAMPLED BY	FGM
CUST.STN.NO.	202E311659	FOREMAN/ENGR.	STEVEN J. MANSUR

REMARKS

ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.958	0.0000	0.00	0.0093
CO2	0.071	0.0000	0.00	0.0011
METHANE	67.968	0.0000	688.04	0.3765
ETHANE	14.933	3.9946	264.87	0.1550
PROPANE	8.159	2.2486	205.76	0.1242
I-BUTANE	0.965	0.3157	31.45	0.0194
N-BUTANE	2.976	0.9383	97.31	0.0597
I-PENTANE	0.754	0.2759	30.24	0.0188
N-PENTANE	1.118	0.4049	44.92	0.0279
HEXANE PLUS	2.098	0.9154	107.86	0.0675
TOTAL	100.000	9.0934	1,470.45	0.8593

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0054
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,479.5
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,453.8
REAL SPECIFIC GRAVITY		0.8647

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,471.5
DRY BTU @ 14.696	1,476.1
DRY BTU @ 14.730	1,479.5
DRY BTU @ 15.025	1,509.2

CYLINDER #	005
CYLINDER PRESSURE	22 PSIG
DATE RUN	12/22/00
ANALYSIS RUN BY	AMY JUSTICE



2030 AFTON PLACE
 FARMINGTON, N.M. 87401
 (505) 325-6622

ANALYSIS NO. HSC00014
 CUST. NO. 33500- 10120

WELL/LEASE INFORMATION

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	RUNAWAY 10E2	PRESSURE	21 PSIG
COUNTY/STATE	SAN JUAN UT	SAMPLE TEMP	60 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	12/21/00
FORMATION		SAMPLED BY	FGM
CUST.STN.NO.	202E311617	FOREMAN/ENGR.	STEVEN J. MANSUR

REMARKS

ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.534	0.0000	0.00	0.0052
CO2	0.053	0.0000	0.00	0.0008
METHANE	50.326	0.0000	509.45	0.2788
ETHANE	23.092	6.1771	409.58	0.2397
PROPANE	14.269	3.9325	359.85	0.2173
I-BUTANE	1.588	0.5194	51.76	0.0319
N-BUTANE	4.428	1.3961	144.79	0.0889
I-PENTANE	0.988	0.3615	39.62	0.0246
N-PENTANE	1.348	0.4882	54.17	0.0336
HEXANE PLUS	3.374	1.4721	173.46	0.1086
TOTAL	100.000	14.3471	1,742.68	1.0292

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z) 1.0082
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z) 1,758.8
 BTU/CU.FT (WET) CORRECTED FOR (1/Z) 1,728.2
 REAL SPECIFIC GRAVITY 1.0390

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650 1,749.3
 DRY BTU @ 14.696 1,754.8
 DRY BTU @ 14.730 1,758.8
 DRY BTU @ 15.025 1,794.1

CYLINDER # AZT035
 CYLINDER PRESSURE 26 PSIG
 DATE RUN 12/22/00
 ANALYSIS RUN BY AMY JUSTICE



2030 AFTON PLACE
 FARMINGTON, N.M. 87401
 (505) 325-6622

ANALYSIS NO. HSC00013
 CUST. NO. 33500- 10115

WELL/LEASE INFORMATION

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	RUNAWAY 10C 5-A	PRESSURE	9 PSIG
COUNTY/ STATE	SAN JUAN UT	SAMPLE TEMP	69 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	12/21/00
FORMATION		SAMPLED BY	FGM
CUST.STN.NO.	202E308719	FOREMAN/ENGR.	STEVEN J. MANSUR

REMARKS

ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.794	0.0000	0.00	0.0077
CO2	0.109	0.0000	0.00	0.0017
METHANE	56.637	0.0000	573.34	0.3137
ETHANE	18.737	5.0121	332.34	0.1945
PROPANE	11.185	3.0826	282.07	0.1703
I-BUTANE	1.296	0.4239	42.24	0.0260
N-BUTANE	3.814	1.2026	124.71	0.0765
I-PENTANE	1.035	0.3787	41.51	0.0258
N-PENTANE	1.558	0.5643	62.60	0.0388
HEXANE PLUS	4.835	2.1095	248.57	0.1556
TOTAL	100.000	12.7737	1,707.38	1.0106

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0080
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,723.7
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,693.7
REAL SPECIFIC GRAVITY		1.0203

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,714.3
DRY BTU @ 14.696	1,719.7
DRY BTU @ 14.730	1,723.7
DRY BTU @ 15.025	1,758.2

CYLINDER #	A002
CYLINDER PRESSURE	14 PSIG
DATE RUN	12/22/00
ANALYSIS RUN BY	AMY JUSTICE

COM, INC.
1427 W.AZTEC, BLVD. #3 AZTEC, NM 87410
505-333-2003

Source: ELKHORN FIELD SERVICE Report Date: 06/19/2001 12:58:11
Station #: 78-138 Sample Date: 06/13/2001
Station Name: RUNWAY 10-G-1 Flowing Pressure: 0 psig
Field: RIM SOUTHWEST Flowing Temp.: 0 F

Method: c:\mti\ezchrom\200\methods\sour2.met
File: c:\mti\ezchrom\200\chrom\78_13806.1

Gas Analysis by Chromatograph

Name	Mole %	BTU	RD	GPM
Nitrogen	1.082	0.000	0.010	
Methane	59.728	604.648	0.331	
CO2	0.074	0.000	0.001	
Ethane	18.511	328.328	0.192	4.951
H2S (approx)	0.000	0.000	0.000	
Propane	12.402	312.769	0.189	3.417
i-Butane	1.191	38.820	0.024	0.390
n-Butane	3.539	115.720	0.071	1.116
i-Pentane	0.926	37.134	0.023	0.335
n-Pentane	1.239	49.785	0.031	0.453
Hexanes	0.834	39.756	0.025	0.343
Heptanes	0.424	23.385	0.015	0.196
Octanes	0.050	3.132	0.002	0.026

Ideal Total	100.000	1553.477	0.914	11.227
Unnormalized Total	92.627			

Gross BTU/Real Cu. Ft.
(@ 60 deg F, 14.730)
Dry = 1563.024
Sat. = 1537.392
Actual = 1563.024
(0.000 lbs. water/MMCF)

Gasoline Content
Propane GPM = 3.417
Butane GPM = 1.505
Gasoline GPM = 1.353
26# Gasoline GPM = 2.469
Total GPM = 11.227

Real Relative Density Calculated = 0.9190
On-Site Relative Density = 0.0000

Gas Compressibility = 0.9939

CQM, I . ON-SITE GAS ANALYSIS IT 2
 1427 W. AZTEC BLVD. #3
 AZTEC, NM 87410 505-333-2003

Source: ELKHORN FIELD SERVICES Report Date: 06/19/2001 13:53:04
 Station #: 78-148 Sample Date: 06/13/2001
 Station Name: SAGEEZIE/ANASAZI Flowing Pressure: 0 psig
 Field: RIM SOUTHWEST Flowing Temp.: 0 F

Method: c:\mti\ezchrom\200\methods\H2S_1.MET
 File: c:\mti\ezchrom\200\chrom\78_14806.1

Gas Analysis by Chromatograph

Name	Mole %	BTU	RD	GPM
Nitrogen	0.664	0.000	0.006	
Methane	44.440	449.882	0.246	
CO2	0.068	0.000	0.001	
Ethane	23.771	421.625	0.247	6.358
H2S (APPROX)	0.000	0.000	0.000	
Propane	17.469	440.554	0.256	4.814
i-Butane	2.367	77.151	0.048	0.774
n-Butane	5.635	184.256	0.113	1.777
i-Pentane	1.485	59.551	0.037	0.543
n-Pentane	1.729	69.474	0.043	0.626
Hexanes	1.947	92.812	0.058	0.801
Heptanes	0.378	20.848	0.013	0.174
Octanes	0.047	2.944	0.002	0.024
Nonanes	0.000	0.000	0.000	

Ideal Total 100.000 1819.096 1.080 15.891
 Unnormalized Total 113.650

Gross BTU/Real Cu. Ft.
 (@ 60 deg F, 14.730)

Dry = 1835.446

Sat. = 1805.263

Actual = 1835.446

(0.000 lbs. water/MMCF)

Gasoline Content

Propane GPM = 4.814

Butane GPM = 2.551

Gasoline GPM = 2.169

26# Gasoline GPM = 3.945

Total GPM = 15.891

Real Relative Density Calculated = 1.0892

On-Site Relative Density = 0.0000

Gas Compressibility = 0.9911



2030 AFTON PLACE
 FARMINGTON, N.M. 87401
 (505) 325-6622

ANALYSIS NO. HSC00012
 CUST. NO. 33500- 10105

WELL/LEASE INFORMATION

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	NAVAJO TRIBAL 32-26	PRESSURE	17 PSIG
COUNTY/ STATE	SAN JUAN UT	SAMPLE TEMP	30 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	12/21/00
FORMATION		SAMPLED BY	FGM
CUST.STN.NO.	202A-52531	FOREMAN/ENGR.	STEVEN J. MANSUR

REMARKS

ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.934	0.0000	0.00	0.0090
CO2	0.050	0.0000	0.00	0.0008
METHANE	71.878	0.0000	727.62	0.3981
ETHANE	15.057	4.0277	267.07	0.1563
PROPANE	6.531	1.7999	164.71	0.0994
I-BUTANE	0.770	0.2519	25.10	0.0155
N-BUTANE	1.958	0.6174	64.02	0.0393
I-PENTANE	0.510	0.1866	20.45	0.0127
N-PENTANE	0.663	0.2401	26.64	0.0165
HEXANE PLUS	1.649	0.7195	84.78	0.0531
TOTAL	100.000	7.8431	1,380.39	0.8007

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0046
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,387.6
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,363.5
REAL SPECIFIC GRAVITY		0.8049

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,380.1	CYLINDER #	KFL148
DRY BTU @ 14.696	1,384.4	CYLINDER PRESSURE	23 PSIG
DRY BTU @ 14.730	1,387.6	DATE RUN	12/22/00
DRY BTU @ 15.025	1,415.4	ANALYSIS RUN BY	AMY JUSTICE

CQM, IN ON-SITE GAS ANALYSIS JIT 2
 1427 W. AZTEC BLVD. #3
 AZTEC, NM 87410 505-333-2003

Source: ELKHORN FIELD SERVICES Report Date: 06/19/2001 13:59:32
 Station #: 78-145 Sample Date: 06/13/2001
 Station Name: NT41-2 Flowing Pressure: 0 psig
 Field: RIM SOUTHWEST Flowing Temp.: 0 F

Method: c:\mti\ezchrom\200\methods\H2S_1.MET
 File: c:\mti\ezchrom\200\chrom\78_14506.1

Gas Analysis by Chromatograph

Name	Mole %	BTU	RD	GPM
Nitrogen	1.152	0.000	0.011	
Methane	56.788	574.886	0.315	
CO2	0.085	0.000	0.001	
Ethane	19.719	349.755	0.205	5.274
H2S (APPROX)	0.000	0.000	0.000	
Propane	12.656	319.174	0.193	3.487
i-Butane	1.519	49.511	0.030	0.497
n-Butane	4.167	136.255	0.084	1.314
i-Pentane	1.029	41.265	0.026	0.377
n-Pentane	1.297	52.116	0.032	0.470
Hexanes	1.366	65.116	0.041	0.562
Heptanes	0.196	10.810	0.007	0.090
Octanes	0.026	1.628	0.001	0.013
Nonanes	0.000	0.000	0.000	

Ideal Total 100.000 1600.514 0.945 12.084
 Unnormalized Total 110.907

Gross BTU/Real Cu. Ft.

(@ 60 deg F, 14.730)

Dry = 1611.115

Sat. = 1584.681

Actual = 1611.115

(0.000 lbs. water/MMCF)

Gasoline Content

Propane GPM = 3.487

Butane GPM = 1.811

Gasoline GPM = 1.512

26# Gasoline GPM = 2.826

Total GPM = 12.084

Real Relative Density Calculated = 0.9508

On-Site Relative Density = 0.0000

Gas Compressibility = 0.9934

COM, . . . ON-SITE GAS ANALYSIS
 1427 W. AZTEC BLVD. #3
 AZTEC, NM 87410 505-333-2003

IT 2

Source: ELKHORN FIELD SERVICE Report Date: 06/19/2001 14:32:41
 Station #: 78-146 Sample Date: 06/14/2001
 Station Name: NT #23-13 Flowing Pressure: 0 psig
 Field: RIM SOUTHWEST Flowing Temp.: 0 F

Method: c:\mti\ezchrom\200\methods\H2S 1.MET
 File: c:\mti\ezchrom\200\chrom\78_14606.1

Gas Analysis by Chromatograph

Name	Mole %	BTU	RD	GPM
Nitrogen	1.159	0.000	0.011	
Methane	56.655	573.539	0.314	
CO2	0.136	0.000	0.002	
Ethane	19.548	346.722	0.203	5.228
H2S (APPROX)	0.000	0.000	0.000	
Propane	12.674	319.628	0.193	3.492
i-Butane	1.537	50.097	0.031	0.503
n-Butane	4.064	132.887	0.082	1.281
i-Pentane	0.965	38.698	0.024	0.353
n-Pentane	1.172	47.093	0.029	0.424
Hexanes	1.532	73.029	0.046	0.630
Heptanes	0.424	23.385	0.015	0.196
Octanes	0.134	8.393	0.005	0.069
Nonanes	0.000	0.000	0.000	

Ideal Total	100.000	1613.471	0.954	12.177
Unnormalized Total	107.575			

Gross BTU/Real Cu. Ft.
 (@ 60 deg F, 14.730)
 Dry = 1624.438
 Sat. = 1597.782
 Actual = 1624.438
 (0.000 lbs. water/MMCF)

Gasoline Content
 Propane GPM = 3.492
 Butane GPM = 1.784
 Gasoline GPM = 1.672
 26# Gasoline GPM = 2.953
 Total GPM = 12.177

Real Relative Density Calculated = 0.9603
 On-Site Relative Density = 0.0000

Gas Compressibility = 0.9932



2030 AFTON PLACE
 FARMINGTON, N.M. 87401
 (505) 325-6622

ANALYSIS NO. HSC00009
 CUST. NO. 33500- 10085

WELL/LEASE INFORMATION

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	MONUMENT 8N2	PRESSURE	12 PSIG
COUNTY/STATE	SAN JUAN UT	SAMPLE TEMP	55 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	12/21/00
FORMATION		SAMPLED BY	FGM
CUST.STN.NO.	202E311589	FOREMAN/ENGR.	STEVEN J. MANSUR

REMARKS

ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	1.139	0.0000	0.00	0.0110
CO2	0.064	0.0000	0.00	0.0010
METHANE	60.307	0.0000	610.49	0.3341
ETHANE	15.875	4.2466	281.57	0.1648
PROPANE	11.057	3.0473	278.85	0.1684
I-BUTANE	1.628	0.5325	53.06	0.0327
N-BUTANE	5.194	1.6377	169.83	0.1042
I-PENTANE	1.202	0.4398	48.20	0.0299
N-PENTANE	1.620	0.5868	65.09	0.0404
HEXANE PLUS	1.914	0.8351	98.40	0.0616
TOTAL	100.000	11.3257	1,605.49	0.9480

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0067
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,617.3
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,589.2
REAL SPECIFIC GRAVITY		0.9551

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,608.5
DRY BTU @ 14.696	1,613.6
DRY BTU @ 14.730	1,617.3
DRY BTU @ 15.025	1,649.7

CYLINDER #	050
CYLINDER PRESSURE	15 PSIG
DATE RUN	12/22/00
ANALYSIS RUN BY	AMY JUSTICE



2030 AFTON PLACE
 FARMINGTON, N.M. 87401
 (505) 325-6622

ANALYSIS NO. HSC00010
 CUST. NO. 33500- 10090

WELL/LEASE INFORMATION

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	MONUMENT 17-E-2	PRESSURE	20 PSIG
COUNTY/ STATE	SAN JUAN UT	SAMPLE TEMP	47 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	12/21/00
FORMATION		SAMPLED BY	FGM
CUST.STN.NO.	202E311659	FOREMAN/ENGR.	STEVEN J. MANSUR

REMARKS

ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.958	0.0000	0.00	0.0093
CO2	0.071	0.0000	0.00	0.0011
METHANE	67.968	0.0000	688.04	0.3765
ETHANE	14.933	3.9946	264.87	0.1550
PROPANE	8.159	2.2486	205.76	0.1242
I-BUTANE	0.965	0.3157	31.45	0.0194
N-BUTANE	2.976	0.9383	97.31	0.0597
I-PENTANE	0.754	0.2759	30.24	0.0188
N-PENTANE	1.118	0.4049	44.92	0.0279
HEXANE PLUS	2.098	0.9154	107.86	0.0675
TOTAL	100.000	9.0934	1,470.45	0.8593

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0054
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,479.5
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,453.8
REAL SPECIFIC GRAVITY		0.8647

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,471.5	CYLINDER #	005
DRY BTU @ 14.696	1,476.1	CYLINDER PRESSURE	22 PSIG
DRY BTU @ 14.730	1,479.5	DATE RUN	12/22/00
DRY BTU @ 15.025	1,509.2	ANALYSIS RUN BY	AMY JUSTICE



2030 AFTON PLACE
 FARMINGTON, N.M. 87401
 (505) 325-6622

ANALYSIS NO. HSC00008
 CUST. NO. 33500- 10000

WELL/LEASE INFORMATION

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	CAJON 8D1	PRESSURE	12 PSIG
COUNTY/ STATE	SAN JUAN UT	SAMPLE TEMP	42 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	12/21/00
FORMATION	ISMAY	SAMPLED BY	FGM
CUST.STN.NO.	202E311625	FOREMAN/ENGR.	STEVEN J. MANSUR

REMARKS

ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.802	0.0000	0.00	0.0078
CO2	0.070	0.0000	0.00	0.0011
METHANE	58.781	0.0000	595.04	0.3256
ETHANE	18.008	4.8171	319.41	0.1870
PROPANE	12.630	3.4808	318.52	0.1923
I-BUTANE	1.567	0.5126	51.07	0.0314
N-BUTANE	4.747	1.4967	155.22	0.0953
I-PENTANE	0.925	0.3385	37.09	0.0230
N-PENTANE	1.207	0.4372	48.50	0.0301
HEXANE PLUS	1.263	0.5510	64.93	0.0406
TOTAL	100.000	11.6339	1,589.78	0.9341

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0065
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,600.8
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,573.0
REAL SPECIFIC GRAVITY		0.9408

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,592.1
DRY BTU @ 14.696	1,597.1
DRY BTU @ 14.730	1,600.8
DRY BTU @ 15.025	1,632.9

CYLINDER #	AZT047
CYLINDER PRESSURE	15 PSIG
DATE RUN	12/26/00
ANALYSIS RUN BY	AMY JUSTICE

CQM, IN. ON-SITE GAS ANALYSIS .IT 2
 1427 W. AZTEC BLVD. #3
 AZTEC, NM 87410 505-333-2003

Source: ELKHORN FIELD SERVICE Report Date: 06/19/2001 14:36:40
 Station #: 78-144 Sample Date: 06/14/2001
 Station Name: MON/CAJON MESA Flowing Pressure: 0 psig
 Field: RTM SOUTHWEST Flowing Temp.: 0 F

Method: c:\mti\ezchrom\200\methods\H2S_1.MET
 File: c:\mti\ezchrom\200\chrom\78_14406.1

Gas Analysis by Chromatograph

Name	Mole %	BTU	RD	GPM
Nitrogen	0.989	0.000	0.010	
Methane	63.867	646.549	0.354	
CO2	0.044	0.000	0.001	
Ethane	15.724	278.896	0.163	4.205
H2S (APPROX)	0.000	0.000	0.000	
Propane	9.810	247.400	0.149	2.703
i-Butane	1.181	38.494	0.024	0.386
n-Butane	3.638	118.957	0.073	1.147
i-Pentane	0.900	36.091	0.022	0.329
n-Pentane	1.247	50.107	0.031	0.452
Hexanes	1.943	92.621	0.058	0.799
Heptanes	0.514	28.348	0.018	0.237
Octanes	0.143	8.957	0.006	0.073
Nonanes	0.000	0.000	0.000	
Ideal Total	100.000	1546.420	0.908	10.332
Unnormalized Total	108.337			

Gross BTU/Real Cu. Ft.
 (@ 60 deg F, 14.730)
 Dry = 1555.948
 Sat. = 1530.436
 Actual = 1555.948
 (0.000 lbs. water/MMCF)

Gasoline Content
 Propane GPM = 2.703
 Butane GPM = 1.533
 Gasoline GPM = 1.890
 26# Gasoline GPM = 3.037
 Total GPM = 10.332

Real Relative Density Calculated = 0.9133
 On-Site Relative Density = 0.0000

Gas Compressibility = 0.9939



2030 AFTON PLACE
 FARMINGTON, N.M. 87401
 (505) 325-6622

ANALYSIS NO. HSC00018
 CUST. NO. 33500- 10035

WELL/LEASE INFORMATION

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	BIG SKY 6E	PRESSURE	17 PSIG
COUNTY/ STATE	SAN JUAN UT	SAMPLE TEMP	21 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	12/23/00
FORMATION		SAMPLED BY	FGM
CUST.STN.NO.	202E430640	FOREMAN/ENGR.	STEVEN J. MANSUR

REMARKS

ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	1.658	0.0000	0.00	0.0160
CO2	0.037	0.0000	0.00	0.0006
METHANE	66.226	0.0000	670.41	0.3668
ETHANE	17.222	4.6069	305.47	0.1788
PROPANE	9.526	2.6254	240.24	0.1450
I-BUTANE	1.012	0.3310	32.99	0.0203
N-BUTANE	2.724	0.8589	89.07	0.0547
I-PENTANE	0.496	0.1815	19.89	0.0124
N-PENTANE	0.553	0.2003	22.22	0.0138
HEXANE PLUS	0.546	0.2382	28.07	0.0176
TOTAL	100.000	9.0422	1,408.36	0.8260

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0048
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,415.4
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,390.8
REAL SPECIFIC GRAVITY		0.8302

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,407.7	CYLINDER #	007
DRY BTU @ 14.696	1,412.2	CYLINDER PRESSURE	17 PSIG
DRY BTU @ 14.730	1,415.4	DATE RUN	12/28/00
DRY BTU @ 15.025	1,443.8	ANALYSIS RUN BY	GINA HANON

CQM, INC.
1427 W. AZTEC, BLVD. #3 AZTEC, NM 87410
505-333-2003

Source: ELKHORN FIELD SERVICE Report Date: 06/19/2001 12:14:41
Station #: 78-132 Sample Date: 06/13/2001
Station Name: HILLSIDE 6-C *Big Sky* Flowing Pressure: 0 psig
Field: RIM SOUTHWEST Flowing Temp.: 0 F

Method: c:\mti\ezchrom\200\methods\sour2.met
File: c:\mti\ezchrom\200\chrom\78_13206.1

Gas Analysis by Chromatograph

Name	Mole %	BTU	RD	GPM
Nitrogen	1.876	0.000	0.018	
Methane	65.826	666.381	0.365	
CO2	0.039	0.000	0.001	
Ethane	16.765	297.360	0.174	4.484
H2S (approx)	0.000	0.000	0.000	
Propane	9.827	247.829	0.150	2.708
i-Butane	0.865	28.194	0.017	0.283
n-Butane	2.514	82.204	0.050	0.793
i-Pentane	0.633	25.384	0.016	0.229
n-Pentane	0.787	31.623	0.020	0.288
Hexanes	0.689	32.844	0.021	0.283
Heptanes	0.166	9.155	0.006	0.077
Octanes	0.013	0.814	0.001	0.007
Ideal Total	100.000	1421.788	0.837	9.151
Unnormalized Total	94.894			

Gross BTU/Real Cu. Ft. (@ 60 deg F, 14.730)	Gasoline Content
Dry = 1428.837	Propane GPM = 2.708
Sat. = 1405.444	Butane GPM = 1.076
Actual = 1428.837	Gasoline GPM = 0.884
(0.000 lbs. water/MMCF)	26# Gasoline GPM = 1.676
	Total GPM = 9.151

Real Relative Density Calculated = 0.8408
On-Site Relative Density = 0.0000

Gas Compressibility = 0.9951

Division of Oil, Gas and Mining
PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

Well File _____ Suspense _____ Other _____

 (Loc.) Sec _____ Twp _____ Rng _____ (Return Date) _____
 (API No.) _____ (To-Initials) _____

1. Date of Phone Call: 9/12/01 Time: 9:50

2. DOGM Employee (name) Dustin Doucet (Initiated Call)
 Talked to:
 Name Wayne Townsend (Initiated Call) - Phone No. (505) 599 6359
 of (Company/Organization) BLM

3. Topic of Conversation: Gas Flaring in Aneth area - bad western
Gas Resources Pipeline

4. Highlights of Conversation: Wayne has had several meetings with
Navajo Nation, Navajo EPA, Navajo minerals, Navajo Health and Human Services,
the Department of Justice, US EPA, Texaco, Exxon-Mobil, western Gas & the
Red Mesa & Aneth chapters. 12.5 miles of pipeline (downstream from
Aneth Plant) no good. Options: a) rebuild 12.5 miles of pipeline - Row expires
2005 western's renegotiation with Navajo to extend Row was denied [main choice], 1 month
to rebuild once ok given from Navajo etc. b) Use 20" Questar oil pipeline [1950's - no go]
c) Use 6" Coroco Line - convert to gas and truck liquids from plant - talks broke down 9/11/01.
Everyone in agreement to keep wells producing - some verbal complaints from public, nothing
in writing yet. Red Mesa & Aneth chapters wanted full shut-in. Current plan: EPA sending
letter today to flare gas thru plant (gas will be metered). The gas will be counted as
cost gas - no royalty due - because out of control of companies (producers). H₂S and other
safety monitors will be set up around plant and monitor health risks, etc. BLM
has approved all flaring until Oct. 15, 2001 associated w/ this matter. Probably
won't be back into operation before then though.

RIM SOUTHWEST CORPORATION

			ESTIMATED GAS	
			VENTED	
LEASE NUMBER	WELL NAME	SEC-TWN-RNG	MCF/DAY	
1420603373	Big Sky 6E (6L)	06-42S-25E	19	43-037-31714
NOC 14205297				
(NMNM 5756)	Monument 8N-2	08-40S-25E	18	43-037-31509
(NMNM 5757)	Cajon Mesa 8D-1	08-40S-25E	0	43-037-31497
NOG 8308-1033	Navajo Tribal 23-13	13-40S-24E	23	43-037-30971
	Navajo Tribal 14-10	10-40S-24E	1	43-037-30977
	Navajo Tribal 41-2	02-42S-24E	8	43-037-31041
	Navajo Tribal 32-26	26-40S-22E	8	43-037-31060
NOG 8707-1162	Sahgzie #1	05-42S-24E	16	43-037-31472
	Anasazi #1	05-42S-24E	67	43-037-31478
NOG 8707-1170	Runway 10G-1	10-40S-25E	SI	43-037-31515
	Runway 10C-5A	10-40S-25E	SI	43-037-31597
NOG 8707-1190	Runway 10E-2	10-40S-25E	17	43-037-31550
NOG 8707-1191	Monument 17E-2	17-40S-25E	0	43-037-31547
NOG 8707-1206	Blue Hogan 1J-1	01-42S-23E	27	43-037-31562
	Brown Hogan 1A-2	01-42S-23E	18	43-037-31573
NOG 8707-12321	Burro 31-1	31-41S-24E	1	43-037-31708
	Jack 31G	31-41S-24E	SI	43-037-31709
	Mule 31K (N)	31-41S-24E	7	43-037-31617
	Mule 31M	31-41S-24E	24	43-037-31710
		TOTAL AVERAGE	254	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. See Attached
2. Name of Operator RIM SOUTHWEST CORPORATION		6. If Indian, Allottee or Tribe Name Navajo Nation
3a. Address P.O. Box 145, Farmington, NM 87499	3b. Phone No. (include area code) (505) 327-5531	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)		8. Well Name and No.
		9. API Well No.
		10. Field and Pool, or Exploratory Area
		11. County or Parish, State San Juan county Utah

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Vent/Flare</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<u>Gas</u>
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Please be advised that RIM Southwest Corporation is requesting additional approval to continue to vent/flare gas from the attached wells until December 1, 2001 or until the Aneth plant is put back on line, whichever occurs first. Please reference our previous sundry notice dated 8/29/01 which gave approval for this action through October 15, 2001.

Attachment
**Accepted by the
Utah Division of
Oil, Gas and Mining**

COPY SENT TO OPERATOR
DATE 11/19/01
BY [Signature]

Date: 11/19/01
By: [Signature]
BY 2 DEC 1, 2001

Federal Approval Of This
Action Is Necessary

cc: State of Utah
Navajo Nation-Minerals
Navajo Nation EPA-Air
Quality
BIA - Gallup, NM

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed) W. J. Holcomb	Title Vice President
Signature <u>[Signature]</u>	Date 11/01/01

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice 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.	Office	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FILE

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
RIM SOUTHWEST CORPORATION

3a. Address **87499**
P.O. Box 145, Farmington, NM

3b. Phone No. (include area code)
(505) 327-5531

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

5. Lease Serial No.
See Attached

6. If Indian, Allottee or Tribe Name
Navajo Nation

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

9. API Well No.

10. Field and Pool, or Exploratory Area

11. County or Parish, State
**San Juan County
 Utah**

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Flare Gas
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Please be advised that as of approximately 3:00 p.m. Thursday, November 15, 2001 the attached wells were put back on line for gas sales through the Aneth pipeline/plant.

CC: State of Utah
Navajo Nation-Minerals
Navajo Nation EPA - Air Quality
BIA - Gallup, NM

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed) **W. J. Holcomb** Title **Vice President**

Signature  Date **11/19/01**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by _____ Title _____ Date _____

Conditions of approval, if any, are attached. Approval of this notice 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.

Office _____

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.

RIM SOUTHWEST CORPORATION

LEASE NUMBER	WELL NAME	SEC-TWN-RNG	ESTIMATED GAS	
			VENTED	MCF/DAY
1420603373	Big Sky 6E (6L)	06-42S-25E	19	43-037-31714
NOC 14205297				
(NMNM 5756)	Monument 8N-2	08-40S-25E	18	43-037-31509
(NMNM 5757)	Cajon Mesa 8D-1	08-40S-25E	0	43-037-31497
NOG 8308-1033	Navajo Tribal 23-13	13-40S-24E	23	43-037-30971
	Navajo Tribal 14-10	10-40S-24E	1	43-037-30977
	Navajo Tribal 41-2	02-42S-24E	8	43-037-31041
	Navajo Tribal 32-26	26-40S-22E	8	43-037-31060
NOG 8707-1162	Sahzie #1	05-42S-24E	16	43-037-31472
	Anasazi #1	05-42S-24E	67	43-037-31478
NOG 8707-1170	Runway 10G-1	10-40S-25E	SI	43-037-31515
	Runway 10C-5A	10-40S-25E	SI	43-037-31597
NOG 8707-1190	Runway 10E-2	10-40S-25E	17	43-037-31550
NOG 8707-1191	Monument 17E-2	17-40S-25E	0	43-037-31547
NOG 8707-1206	Blue Hogan 1J-1	01-42S-25E	27	43-037-31562
	Brown Hogan 1A-2	01-42S-25E	18	43-037-31573
NOG 8707-12321	Burro 31-1	31-41S-24E	1	43-037-31708
	Jack 31G	31-41S-24E	SI	43-037-31709
	Mule 31K (N)	31-41S-24E	7	43-037-31617
	Mule 31M	31-41S-24E	24	43-037-31710
TOTAL AVERAGE			254	

OPERATOR CHANGE WORKSHEET

ROUTING

1. GLH
2. CDW
3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

X Operator Name Change

Merger

The operator of the well(s) listed below has changed, effective:

12/1/2000

FROM: (Old Operator):
 N9290-Harken Southwest Corporation
 5 Inverness Drive, East
 Denver, CO 80112
 Phone: (303) 799-9828

TO: (New Operator):
 N1715-Rim Southwest Corporation
 PO Box 145
 Farmington, NM 87499
 Phone: (505) 327-5531

CA No.

Unit:

WELL(S)

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
NAVAJO TRIBAL 32-26	26	400S	220E	4303731060	9990	Indian	OW	S
NAVAJO TRIBAL 14-10	10	400S	240E	4303730977	10130	Indian	OW	P
NAVAJO TRIBAL 23-13	13	400S	240E	4303730971	9420	Indian	OW	P
CAJON MESA 8D-1	08	400S	250E	4303731497	11074	Indian	OW	P
MONUMENT 8N-2	08	400S	250E	4303731509	11087	Indian	OW	P
RUNWAY 10G-1	10	400S	250E	4303731515	11105	Indian	OW	P
RUNWAY 10E-2	10	400S	250E	4303731550	11128	Indian	GW	P
RUNWAY 10C-5A	10	400S	250E	4303731597	11152	Indian	OW	P
MONUMENT 17E-2	17	400S	250E	4303731547	11139	Indian	OW	P
STERLING 36L-1	36	410S	230E	4303731595	11224	Indian	OW	S
MULE 31K (N)	31	410S	240E	4303731617	11326	Indian	OW	P
BURRO 31I	31	410S	240E	4303731708	11496	Indian	OW	P
MULE 31M	31	410S	240E	4303731710	11498	Indian	OW	P
JACK 31G	31	410S	240E	4303731709	11497	Indian	OW	S
CLAY HILL CANYON 32D	32	410S	250E	4303731741	11734	Indian	OW	TA
NORTH HERON 35C	35	410S	250E	4303731616	11479	Indian	OW	S
BLUE HOGAN 1J-1	01	420S	230E	4303731562	11161	Indian	OW	P
BROWN HOGAN 1A-2	01	420S	230E	4303731573	11215	Indian	OW	P
NAVAJO TRIBAL 41-2	02	420S	240E	4303731041	9437	Indian	OW	P
SAHGZIE 1	05	420S	240E	4303731472	11032	Indian	OW	P
ANASAZI 1	05	420S	240E	4303731478	11042	Indian	OW	P
ANASAZI 5L-3	05	420S	240E	4303731572	11207	Indian	OW	P
ANASAZI 6H-1	06	420S	240E	4303731744	11773	Indian	OW	P
LONE MOUNTAIN CREEK 12F-1	12	420S	240E	4303731545	11148	Indian	OW	P
BIG SKY 6E (6L) 1	06	420S	250E	4303731714	11722	Indian	OW	P

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 4/27/2001

2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 4/27/2001

3. The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/30/2003

4. Is the new operator registered in the State of Utah: YES Business Number: 794466-0143
5. If **NO**, the operator was contacted on: _____
6. (R649-9-2)Waste Management Plan has been received on: 8/13/2003

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: not given

8. **Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database** on: 8/26/2003
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 8/26/2003
3. Bond information entered in RBDMS on: n/a
4. Fee wells attached to bond in RBDMS on: n/a

STATE WELL(S) BOND VERIFICATION:

1. State well(s) covered by Bond Number: n/a

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: n/a

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: RLB0001937

FEE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number n/a
2. The **FORMER** operator has requested a release of liability from their bond on: n/a
The Division sent response by letter on: n/a

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:

Because this was a merger, all LA and PA wells belong to Rim Southwest also. However, they are still on our computer as Harken Southwest because no list was provided to move them.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. 14-20-603-373
2. Name of Operator RJM Southwest Corporation		6. If Indian, Allottee, or Tribe Name The Navajo Nation
3a. Address 5 Inverness Drive East, Englewood CO 80112	3b. Phone No. (include area code) 303-799-9828	7. If Unit or CA. Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) NW SW sec 6 T 42S R 25E		8. Well Name and No. Big Sky 6E (6L) †
		9. API Well No. 43-037-31714
		10. Field and Pool, or Exploratory Area Clay Hill
		11. County or Parish, State San Juan Co., Utah

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/ Resume)	<input type="checkbox"/> Water Shut-off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and abandon	<input type="checkbox"/> Temporarily Abandon	Return to production
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths or pertinent markers and sands. Attach the Bond under which the work will performed or provide the Bond No. on file with the BLM/ BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notice shall be filed only after all requirements, including reclamantion, have been completed, and the operator has determined that the site is ready for final inspection.)

Returned to sales on Friday, August 29, 2008.

14. I hereby certify that the foregoing is true and correct.

Name (Printed/ Typed) Kenneth J Kundrik	Title Operations Engineer
Signature <i>Kenneth Kundrik</i>	Date 9/2/2008

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

ACCEPTED FOR RECORD

Approved by	Title	Date
Conditions of approval, if any are attached. Approval of this notice 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.	Office	SEP 09 2008

FARMINGTON FIELD OFFICE

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 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 reverse)

FARMINGTON
Wah-OLD

RECEIVED

SEP 25 2008

DIV. OF OIL, GAS & MINING

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

FORM APPROVED
OMB No. 1004-0135
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No. 14-20-603-373

6. Indian, Allottee, or Tribe Name
The Navajo Nation

7. If Unit or CA. Agreement Designation

8. Well Name and No.
Big Sky 6E (6L)

9. API Well No.
43-037-31714

10. Field and Pool, or Exploratory Area
Clay Hill

11. County or Parish, State
San Juan Co., Utah

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
RIM Southwest Corp.

3a. Address
5 Inverness Drive East, Englewood CO 80112

3b. Phone No. (include area code)
303-799-9828

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NW SW Sec 6 T 42S R 25E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/ Resume)	<input type="checkbox"/> Water Shut-off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and abandon	<input type="checkbox"/> Temporarily Abandon	Returned to sales
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths or pertinent markers and sands. Attach the Bond under which the work will performed or provide the Bond No. on file with the BLM/ BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notice shall be filed only after all requirements, including reclamantion, have been completed, and the operator has determined that the site is ready for final inspection.)

Returned to sales on Friday, February 27, 2009.

RECEIVED

MAR 12 2009

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct.

Name (Printed/ Typed) **Kenneth J Kundrik** Title **Operations Engineer**

Signature *Kenneth J Kundrik* Date **3/2/2009**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by _____ Title _____ Date _____

Conditions of approval, if any are attached. Approval of this notice 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. Office _____

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 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 reverse)

MAR 09 2009

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires: July 31, 2010

5. Lease Serial No.
14-20-603-373

6. If Indian, Allottee, or Tribe Name
The Navajo Nation

7. If Unit or CA. Agreement Designation

8. Well Name and No.
Big Sky 6E (6L)

9. API Well No.
43-037-31714

10. Field and Pool, or Exploratory Area
Clay Hill

11. County or Parish, State
San Juan Co., Utah

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
RIM Southwest Corp.

3a. Address
5 Inverness Drive East, Englewood CO 80112

3b. Phone No. (include area code)
303-799-9828

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NWSW sec 6 T 42S R 25E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/ Resume)	<input type="checkbox"/> Water Shut-off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and abandon	<input type="checkbox"/> Temporarily Abandon	Returned to sales
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths or pertinent markers and sands. Attach the Bond under which the work will be performed or provide the Bond No. on file with the BLM/ BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notice shall be filed only after all requirements, including reclamantion, have been completed, and the operator has determined that the site is ready for final inspection.)

Returned to sales on Monday, June 1, 2009 at 3:00 p.m.

14. I hereby certify that the foregoing is true and correct.

Name (Printed/ Typed) **Kenneth J Kundrik** Title **Operations Engineer**

Signature *[Handwritten Signature]* Date **6/2/2009**

ACCEPTED FOR RECORD

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by _____ Title _____ Date **JUN - 4 2009**

Conditions of approval, if any are attached. Approval of this notice 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.

Office **FARMINGTON FIELD OFFICE**

BY *[Signature]*

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 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 reverse)

NMOCD

RECEIVED

JUN 09 2009

DIV. OF OIL, GAS & MINING

RIM Southwest Corporation
5 Inverness Drive East
Englewood, Colorado 80112
(303) 799-9828 ext. # 303
(303) 799-4259 (fax)

RECEIVED
FEB 01 2012
DIV. OF OIL, GAS & MINING

January 30, 2012

Mr. Stephen Mason
United States Department of the Interior
Bureau of Land Management
Farmington Field Office
1235 La Plata Highway, Suite A
Farmington, New Mexico 87401

Re: Notice of Intent to P&A
Big Sky 6E (6L) #1
Lease # 14-20-603-373
San Juan CO., Utah

43 037 31714
42S 25E 6

Dear Mr. Mason:

Please find enclosed the Notice of Intent to plug and abandon the above well in triplicate. We wish to plug this well in April 2012. If you have, any question or concerns do not hesitate to contact the undersigned. Thank you.

Sincerely,



Kenneth J Kundrik
Operations Manager

CC: BIA Window Rock,
Navajo Nation Minerals Department, Akhtar Zaman Director

State of Utah
Division of Oil, Gas & Mining

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED	
OMB No. 1004-0137	
Expires: July 31, 2010	
5. Lease Serial No.	14-20-603-373
6. If Indian, Allottee, or Tribe Name	NAVAJO NATION
7. If Unit or CA. Agreement Designation	
8. Well Name and No.	BIG SKY 6E (6L)
9. API Well No.	43-037-31714
10. Field and Pool, or Exploratory Area	ANETH
11. County or Parish, State	SAN JUAN CO, UTAH

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	
2. Name of Operator RIM SOUTHWEST CORPORATION	
3a. Address 5 Inverness Drive East, Englewood CO 80112	3b. Division of Oil, Gas & Mining (303) 799-9828
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2585' FNL & 125' FWL SEC 6 T 42S R 25E	

RECEIVED
FEB 01 2012

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/ Resume)	<input type="checkbox"/> Water Shut-off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths or pertinent markers and sands. Attach the Bond under which the work will performed or provide the Bond No. on file with the BLM/ BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notice shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

- MIRU Service rig early part of Mid April 2012 to P&A the above well.
- See Attached program for plugging procedure.
- After plugging wells, all equipment will be removed from the lease location ripped, soil analyzed for hydrocarbon and location reseeded with approved seed mixture.

14. I hereby certify that the foregoing is true and correct.

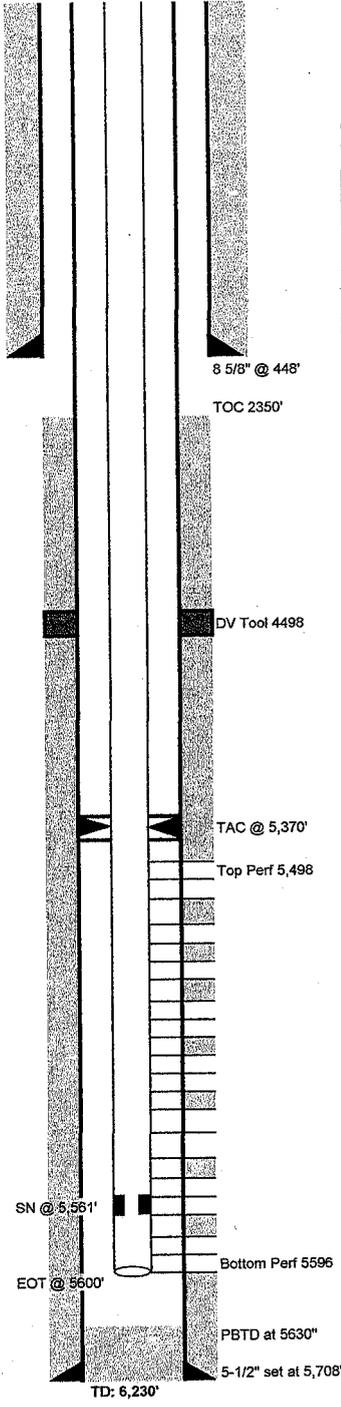
Name (Printed/ Typed) Kenneth J. Kundrik	Title Operations Manager
Signature <i>Kenneth J. Kundrik</i>	Date 1/27/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by <i>[Signature]</i>	Title Pet. Eng.	Date 2/23/12
Conditions of approval, if any are attached. Approval of this notice 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.	Office DOG m	Federal Approval Of This Action Is Necessary

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 any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

WELL: Big Sky 6E(6L) COUNTY: San Juan / API #: 43-037-31714
 FIELD: Aneth STATE: UT SPUD DATE: 12-28-94
 FORMATION: Desert Creek LOCATION: NWSW, Sec. 6, T42S-R25E
 TD: 5,712' PBTD: 5,656' ELEVATION: GL= 4726', KB= 4736'



CASING RECORD

SURFACE CASING

O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.	SX CMT.	TOP CMT.
8-5/8"	24.0#	K-55	ST&C	Surface	448	12	12-1/4"	305	Surface

PRODUCTION CASING

O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.	SX CMT.	TOP CMT.
5-1/2"	15.5#	K-55	LT&C	Surface	5708	138	7-7/8"	190	2350'
					DV tool	4498		590	2350'

LINER

O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.	SX CMT.	TOP CMT.

TUBING

O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.
2-7/8"	6.5#	J-55	8 rd	Surface	5474	173	4-3/4"

PERFORATION RECORD

DATE	TOP	BOTTOM	Shots	ZONE	STATUS
02/02/95	5,589'	5,598'	25	Desert Crk	Prod
02/02/95	5,568'	5,570'	9	Desert Crk	Prod
02/04/95	5,556'	5,564'	33	Desert Crk	Prod
02/02/95	5,543'	5,548'	21	Desert Crk	Prod
02/02/95	5,535'	5,537'	9	Desert Crk	Prod
02/02/95	5,528'	5,531'	13	Desert Crk	Prod
02/02/95	5,511'	5,514'	13	Desert Crk	Prod
02/04/95	5,498'	5,506'	33	Desert Crk	Prod

TREATMENT

- Perfed above acidized w/ 4375 gal 15% HCL - IP'd w/ 224 bopd no gas no water. 3/21/95
 - 12/10/96 Frac'd w/ 109732 # 20/40 sd. 62,141.1 gal Boragel G

REMARKS

Tubing Detail	Rod Detail
172 Jts. of 2-7/8" 6.5"/ft J-55 EUE 8rd Tbg	1 - 1 1/4" X 22' polish rod
TAC @ 5,370'	1 - 7/8" x 8' 6" 4' 2' pony rods
6 Jts. of 2-7/8" 6.5"/ft J-55 EUE 8rd Tbg.	98 - 7/8" D Rods
SN @ 5,561'	107 - 3/4" D Rods
Perforated Sub (6.15')	16 - 7/8" D Rods
1 Jt. of Tbg. W/ Purge Valve. (31.8')	1 - 2 1/2" X 1 1/4" x 12' x 15' x 18' RHAC
EOT 5600	
Surface Location: 2,585' FNL - 125' FWL	
BHL Location: 2,775.17 FNL - 672.18' FWL	
PU Bethlehem 228D-258-74, Ajax E-42, 5-hole, top long stroke, weights leading all out w/ pocket weight, follower 3/4 out w/ pocket weight, 3.6 SPM, bottom tag	

MISCELLANEOUS

RIM W%:	100.00%
BHT:	
BHP:	
EST SITP:	
LOGS:	

CAPACITIES

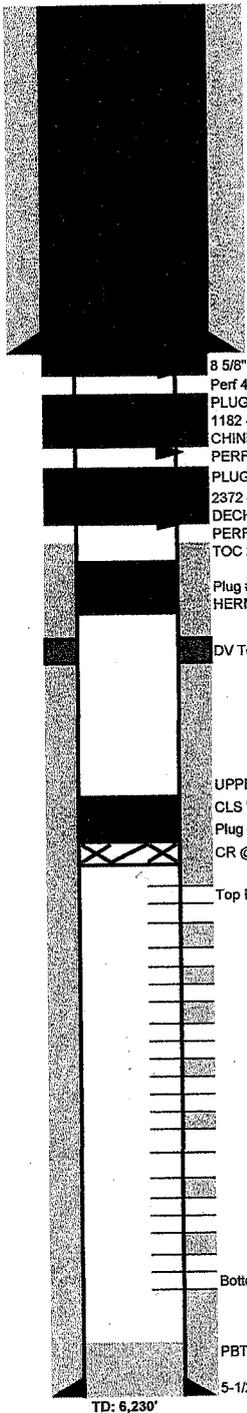
Tubular Cap.	Bbl/ft	Ft3/ft
	Tubing	0.00579
Casing (15.5 #/ft)	0.02380	0.13360
Annular Cap.	Bbl/ft	Ft3/ft
	Tbg x Csg (15.5 #/ft)	0.01580
Csg x Open Hole	0.03090	0.17320

TUBULAR GOODS PERFORMANCE

Material	Tensile (lbs)	Burst (psi)	Collapse (psi)	ID (in)	Drift (in)
5-1/2", 15.5# J-55 ST&C	217,000	4,810	4,040	4.950	4.825
2-7/8", 6.5# J-55 8rd Coupling OD = 3.668"	99,660	7,260	7,880	2.441	2.347

Prepared By: KJK
 Date: 07/25/02
 Updated: 01/30/12

WELL: Big Sky 6E(6L) COUNTY: San Juan / API #: 43-037-31714
 FIELD: Aneth STATE: UT SPUD DATE: 12-28-94
 FORMATION: Desert Creek LOCATION: NWSW, Sec. 6, T42S-R25E
 TD: 5,712' PBTD: 5,656' ELEVATION: GL= 4726', KB= 4736'



CASING RECORD

SURFACE CASING									
O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.	SX CMT.	TOP CMT.
8-5/8"	24.0#	K-55	ST&C	Surface	448	12	12-1/4"	305	Surface

PRODUCTION CASING									
O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.	SX CMT.	TOP CMT.
5-1/2"	15.5#	K-55	LT&C	Surface	5708	138	7-7/8"	190	
					DV tool	4498		590	2350'

LINER									
O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.	SX CMT.	TOP CMT.

TUBING

O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.
2-7/8"	6.5#	J-55	8 rd	Surface	5474	173	4-3/4"

PERFORATION RECORD

DATE	TOP	BOTTOM	Shots	ZONE	STATUS
02/02/95	5,589'	5,596'	25	Desert Crk	Prod
02/02/95	5,568'	5,570'	9	Desert Crk	Prod
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02/02/95	5,535'	5,537'	9	Desert Crk	Prod
02/02/95	5,528'	5,531'	13	Desert Crk	Prod
02/02/95	5,511'	5,514'	13	Desert Crk	Prod
02/04/95	5,498'	5,505'	33	Desert Crk	Prod

TREATMENT

- Perfed above acidized w/ 4375 gal 15% HCL - IP'd w/ 224 bopd no gas no water. 3/21/95
 - 12/10/96 Frac'd w/ 109732 # 20/40 sd. 62,141.1 gal Boragel G

REMARKS

Surface Location: 2,585' FNL - 125' FWL
 BHL Location: 2775.17 FNL - 672.18' FWL

MISCELLANEOUS

RIM Wt%:	100.00%
BHT:	
BHP:	
EST SITP:	
LOGS:	

CAPACITIES

Tubular Cap.	Bbl/ft	Ft3/ft
	Tubing	0.00579
Casing (15.5 #/ft)	0.02380	0.13360
Annular Cap.	Bbl/ft	Ft3/ft
Tbg x Csg (15.5 #/ft)	0.01580	0.08860
Csg x Open Hole	0.03090	0.17320

TUBULAR GOODS PERFORMANCE

Material	Tensile (lbs)	Burst (psi)	Collapse (psi)	ID (in)	Drift (in)
5-1/2", 15.5# J-55 ST&C	217,000	4,810	4,040	4.950	4.825
2-7/8", 6.5# J-55 8rd Coupling OD = 3.668"	99,660	7,260	7,680	2.441	2.347

Prepared By: KJK
 Date: 07/25/02
 Updated: 01/30/12

PLUG & ABANDONMENT PROCEDURE

Well Name: BIG SKY 6E (6L) 31 County: San Juan Date: 1/27/2012
Location: SW NW SEC 6 T 42S R 25E State: Utah Field: ANETH
Formation: DESERT CREEK API: 7141572

Well Data:

Spud Date: 12/28/1994 Grd. : 4,726 KB: 4736'
TD: 5594 PBTD: 5663

Casing:

Surface: _____
Intermediate: 8 5/8" 24 J-55 ST&C Ld @ 448'
Production: 5 1/2" 15.5 #/ft. K-55 LT & C Ld. @ 5708' DV Tool 4498'
Liner: none

Cement:

Intermediate: 305 sxs. CIs "B" TO SURFACE
Production: Stage 1: 190 sxs CIs "B"
Stage 2 : 550 sxs CIs "B" TOC 2350'
Liner: none

Completion Data: 2/2 - 4/1995 - perf 5596 - 5496' 4 spf Acid 4375 gal 15% HCL
G
10/10/1996 Frac'd w/ 109732 # 20/40 sd & 62141 gal Boragel

Tubing: 172 Jts. of 2-7/8" 6.5'/ft J-55 EUE 8rd Tbg
TAC @ 5,370'
6 Jts. of 2-7/8" 6.5'/ft J-55 EUE 8rd Tbg.
SN @ 5,561'
Perforated Sub (6.15')
1 Jt. of Tbg. W/ Purge Valve.(31.8')
EOT 5600

Seating Nipple: 5671'

Rod Detail: 1 - 1 1/4" X 22' polish rod
1 - 7/8" x 8' 6" 4' 2' pony rods
98 - 7/8" D Rods
107 - 3/4" D Rods
16 - 7/8" D Rods

Pump: 1 - 2 1/2" X 1 1/4" x 12' x 15' x 18' RHAC

Program:

Note: All cement volumes use 100% excess outside the pipe and 50' excess inside the pipe.
the stabilizing wellbore fluid will be 8.3 ppg sufficient to balance all exposed formation
pressures. All cement will be CIs. "B" mixed at 14.8 #/gal with a yield 1.18 cf/sxs.

- 1) Dig swab pit 20 ft long, 10 ft wide and 4 ft deep. Down wind of rig. Call One Call Prior to Digging
- 2) Install Liner.
- 3) Test all rig anchors on location to comply with State, & BLM regulations.
- 4) RU Service rig. Conduct safety meeting for all personnel on location.
- 5) Record all casing, tubing and braidenhead pressure every morning.
- 6) Unseat pump and hot oil tubing with at least one tubing volume of hot water to kill well. (typically takes more to remove paraffin)
- 7) Pull out of hole with rod and pump laying down. (Count rods and not on daily report.)
- 8) Unseat tubing anchor and pull out of hole with tubing. Strap out off hole.
- 9) Pick up 5 1/2" csg. Scraper and trip in hole to at least the top of perms.

- 10) POOH lay down casing scraper. PU Cmt. Retainer.
- 11) TIH to 5575'. Set retainer.
- 12) Load hole with brine. Pressure test csg to 800 psi. for 15 min.
- 13) **If Csg. does not test then tag each plug to make sure they have remained in place. Untill Csg does test.**
- 14) Test tubing to 1000 psi.
- 15) **PLUG #1** Mix and spot 40 sxs on cement CIs "B" on top of retainer to isolate perforations from 5575' to 5275'
- 16) **PLUG #2** Mix 17 sxs cement (150' plug) and spot a balanced plug inside the casing from 4327' to 4227' (Hermosa top 4277')
- 17) POOH with tbg. laying down to 2372'. Then pull out of hole standing tubing in derrick.
- 18) **PLUG #3** (Dechelly top 2322') Perforate 50' below Dechelly at top 2372'. 2 perforations. TIH with Cmt. Retainer to 2322'
- 19) Pump 47 sxs CIs. "B" cmt. 17 inside casing and 30 outside casing.
- 20) POOH with tbg. laying down to 1182'. Then pull out of hole standing tubing in derrick.
- 21) **Plug #4** (Chinle top 1132') Perforate 50" below Chinle top at 1182'. 2 perforations. TIH with Cmt Retainer to 1132'.
- 22) Pump 47 sxs CIs. "B" cmt. 17 inside casing and 30 outside casing.
- 23) POOH laying down remaing tubing. Haul tubing to tubescope yard in Aztex, MN.
- 24) RIH and perforate 2 holes at 498'.
- 25) Break circulation.
- 26) **Plug #5** Mix and pump 170 sxs CIs "B" Cmt. down casing and up annulus. Filling both csg and annulus.
- 27) RD BOPE and Service Rig.
- 28) Erect Dry hole maker.
- 29) Reclaim location.

Weatherford Completion Systems	Steve Wyman	Cell	970-759-9100
		Office	505-326-5141
Cortez Well Service	Bobby Higgins	Cell	(970) 560-0242
		Pager	505-599-7322
Energy Pump & Supply	Ron Farris	Cell	(505) 320-9335
Key Pumping Service	Cliff Anderson	Cell	505-320-1022
		Office	505-325-4192
Jet West	Mike Thomason	Office	505-325-8531
Cullem Hot Oiling	Clay Cullem	Cell	970-759-8223

Montezuma Creek Office - Tubing and Rods

Thelma Dee	435- 651-3491 or 3492
Cell	970-946-8556