

FILE NOTATIONS

Entered in N I D File .....  
 Entered On S R Sheet .....  
 Location Map Pinned .....  
 Card Indexed .....  
 T W R for State or Fee Land .....

Checked by Chief .....  
 Copy N I D to Field Office .....  
 Approval Letter .....  
 Disapproval Letter .....

COMPLETION DATA:

Date Well Completed 2/20/54  
 OW..... WW..... TA.....  
 GW..... OS..... PA.....

Location Inspected .....  
 Bond released .....  
 State of Fee Land .....

LOGS FILED

Driller's Log.....  
 Electric Logs (No. ).....

E..... I..... E-I..... GR..... GR-N..... Micro.....  
 Jet..... Mi-L..... Sonic..... Others.....

UTAH GEOLOGICAL AND MINERALOGICAL SURVEY

AFFILIATED WITH

THE COLLEGE OF MINES AND MINERAL INDUSTRIES

UNIVERSITY OF UTAH

SALT LAKE CITY, UTAH

# DRILLING RECORDS

## FOR OIL AND GAS IN UTAH

COMPILED UNDER THE DIRECTION OF

GEORGE H. HANSEN, H. C. SCOVILLE,

AND THE

UTAH GEOLOGICAL AND MINERALOGICAL SURVEY



*From the Records of the Oil and Gas Leasing Branch of the  
Conservation Division of the U.S. Geological Survey*

Bulletin 50

February 1955

Price \$5.00

24-1  
Well Site

DAILY FORMATION REPORT  
Supplementing Daily Drilling Report

JUNE 4

52

PAGE 1

4w

THE CALIFORNIA Co  
ANTELOPE  
CREEK  
UNIT #1  
DUCHESNE CO., UTAH

From To Thick-ness

525 740 215

CHARACTER OF FOR

Interbedded sand, silt, shale, & lime, as follows:

Sandstn, 0.1mm, subang, gtz w blk access common, med hd, silty to shaly, v calc, pin pt stain med brn waxy oil, fair CCL4 cut, brt yel fluor, pin pt por.

Sandstn, 0.3 mm, rnd, frost, blk access common, hd, calc, sl por, good dk brn stn, good CCL4 cut, brt yel fluor

Sandstn, 0.1-0.5 mm, poorly sorted, ang, cherty, blk access, v por, calc, tr med brn pin pt stn

Sandstn, 0.3-0.5 mm, fairly well sorted, subang to subrnd, abundant blk access, good por, fairly soft, friable, sl shaly, v sl calc, good lt brn pin pt stn, good CCL4 cot, brt yel fluor.

Max thickness of sand bed est. 12 ft., 30% of interval

Siltstn, sdy, soft, lt gry, argill, calc, porous

Siltstn, dk gry, earthy, hard, argill, v calc

Max thickness of silt bed est. 10 ft., 15% of interval

Shale, med gry, hard, homog, earthy, non-calc.

Shale, lt gry, sl silty, earthy, soft, calc.

Shale, med to dk brn, hd, dse, homog, dolom (Marl)

Max thickness of shale bed est. 6 ft., 25% of interval

Limestn, med gry & hd to med brn & soft, dse, earthy, argill, homog, dolom

W.J. GREER

Thickness of lime beds est 2ft to 24ft, 30% of interval

WELL LOG

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Property and Well Number	From	To	Thick-ness	CHARACTER OF FORMATION
The California Co	740	774	34	Shale, lt gry, earthy, sl silty, sl calc.
ANTELOPE CREEK	774	784	10	Limestn, lt brn, honey to pseudo-oolitic, soft, dse, sl argill.
UNIT # 1	784	795	11	Sandstn, 0.1 mm, subrnd, fairly well sorted, gry, hd, calc, biotitic, tight, n.s., & sandstn, 0.1-0.4 mm, poorly sorted, ang to subang, gry, hd, calc, abundant biotite & muscovite.
DUCHESNE CO, UTAH	795	840	45	Limestn, brn, locally w ostracods (ovoid, 0.3x0.5 to 0.5x0.8 mm), fairly soft, dense, sl argill, some interbed sandstn, 0.1-0.4 mm, as above.
	840	880	40	Shale, silty, gry, hd, v sl calc, locally biotitic, sl sdy w 0.1 mm gtz. Trace chert, gry-brn, dse, transluc. Near base of unit interbed sandstn, 0.1 mm, ang, fairly soft, sl calc, silty, abundant biotite.
	880	900	20	Sandstn, 0.15-0.2 mm, fairly well sorted, subang to subrnd, fairly tight, calc, lt gry, abundant biotite & muscovite.
	900	910	10	Sandstn, 0.2-0.5 mm, poorly sorted, subang, fairly tight, hd, calc, argill; blk access. very abundant, incl biotite
	740	910	170	

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WELL ROOM

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Property and Well Number	From	To	Thickness	CHARACTER OF FORMATION
The California Co ANTELOPE CREEK UNIT #1 DUCHESSNE CO., UTAH	910	930	20	Shale, dk gry, hd, earthy, homog, v calc; w interbed limestn, lt to med brn, earthy, soft, homog, v argill.
	930	950	20	Sandstn, 0.1-0.2 mm, subang, med gry, v shaly, calc, abundant biotite & v fine (<0.05 mm) pyrite xls.
	950	960	10	Limestn, wh, soft, earthy, v sl silty, shaly ("chalky")
	960	1000	40	Interbed limestn, brn, as above (910-30); & Sandstn, 0.2 mm, subrnd, fairly well sorted, lt gry, hd, tight, v calc, abundant biotite & blk tourmaline (?), tr pyr.
	1000	1020	20	Sandstn, 0.2-0.5 mm, poorly sorted, subang, 50% lt & 50% dk gry grains, feldspathic, v calc, argill, v tight, fairly soft, abundant blk access, as above. Some thin shale beds, dk gry, hd, calc.
	1020	1290	270	Limestn, med to dk gry brn, soft, earthy, argill, locally biotitic, locally w xln calcite veinlets to 0.5mm wide. Interbedded shales & sands, etc, as follows: <u>Shale</u> , dk gry, hd, earthy, calc, locally biotitic, & pyritic, locally silty; <u>white limestn</u> , as above; <u>Limestn</u> , dk gry, hd, earthy, homog, sl argill, dse, tr plant frags; <u>Sandstn</u> , 0.2-0.5 mm, as above; <u>sandstn</u> , 0.1-0.2 mm, gry, feldspathic, hd, tight, calc, abundant biotite & ferromag xls; <u>Marl</u> , dk olive, waxy, hd, dse; Traces of chert, wh to lt brn, transl.
	910	1290	380	

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Property and Well Number	From	To	Thickness	CHARACTER OF FORMATION
The California Co ANTELOPE CREEK UNIT #1	1290	1370	80	Dolom, lt brn, hd, earthy to porcelainous, homog, dse, sl argill; interbed <u>shale</u> , med to dk gry, silty, biotitic, calc, earthy, fairly hard.
DUCHESNE CO, UTAH	1370	1410	40	Shale, dk gry, hd, earthy, calc, homog; some interbed dolom, as above, & Marl, dk olive-gry, soft, subwoxy
	1410	1590	180	Marlstn, olive-gry to med olive-brn, subwoxy, hard, homog, locally sl silty, locally sl bentonitic, locally biotitic; some interbed Shale, as above w tr pyrite in 0.2mm grains; & siltstn, lt gry, fairly hd, v calc, abundant blk access incl biotite, pyritic.
	1590	1630	40	Marlstn, dk gry & olive gry, pyritic, fairly hard, interbed w thin limestns, buff, fairly soft, argill.
	1630	1640	10	Siltstn, lt gry, sl calc, hd, tight, biotitic, tr phlogopite
	1640	1670	30	Interbed marl & lime, as above (1590-1630)
	1670	1720	50	Marlstn, gry to gry-buff, sl silty, calc, fairly hd, tr pyr, tr muscovite, locally tr biotite
	1720	1730	10	Tuff (?), pyritic. Matrix is lt gry silt size tabular to oolitic form particles, v sl calc, w flaky tabular pyritic aggregates, subxln; fabric effect very similar to graphic granite.
	1290	1730	440	

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Property and Well Number	From	To	Thick-ness	CHARACTER OF FORMATION
THE CALIFORNIA CO ANTELOPE CREEK UNIT #1 DUCHESSNE CO., UTAH	1730	1870	140	Marlsten, gry to gry-grn, silty, fairly hd, v calc, locally w traces muscovite, biotite & pyrite; interbed w <u>siltstn</u> , buff, v calc, fairly tight, w uneven lt brn stn 1850-60, dull golden yel floor, slow cclq cut.
	1870	1880	10	Sandstn, 0.1-0.3 mm, poorly sorted, subang, lt gry, v calc, vit to frost qtz, abundant biotite, fairly tight.
	1880	1890	10	Marlsten, gry to dk gry, sl silty, calc, fairly hard
	1890	1900	10	Sandstn, as above
	1900	2005	105	Marlsten, dk olive, dk gry & dk brn, hard, earthy; w thin interbed <u>Sandstn</u> , 0.1 mm, silty, subang, hard, v tight, v calc, biotite common; some <u>siltstn</u> , brn, hard, argill, calc, tight.
	2005	2020	15	Shale, grn-gry, hd, subwoxy, sl biotitic, v calc. Tr silt, as above, sandy & w pyrite tetrahedrons.
	2020	2200	180	Marlsten, med to dk brn, olive gry, & some lt gry & purp-brn, as above except locally silty, locally w v fine muscovite; locally traces of chert, brn, dse, translu.
	2200	2210	10	Marlsten, as above w some imbedded clear calcite rhombs to 0.4 mm; sl trace Sandstn, 0.15 mm, well sorted, subrnd, wh qtz, soft, w about 15% med brn "grains" of soft waxy material, no cut or floor.
	1730	2210	480	

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Property and Well Number	From	To	Thick-ness	CHARACTER OF FORMATION
The California Co	2210	2244	34	Marlstn, as above
ANTELOPE CREEK UNIT #1	2244	2270	26	Marlstn, as above, w thin interbed <u>limestones</u> , silty to sandy, v fine grain, dense, tight, fairly soft, w even dk brn oil stn, slow cclt cut, lt yel fluor, locally 0.5mm marcasite grains in the lime.
Duchesne Co, Utah	2270	2292	22	Marlstn, as above
	2292	2315	23	Marlstn, as above, mostly olive-gry color, with thin oil stained sandy limestn, as above.
	2315	2330	15	Marlstn, dk gry w olive cast, subwaxy, fairly soft, dense.
	2210	2330	120	

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Property and Well Number	From	To	Thickness	CHARACTER OF FORMATION
The California Co ANTELOPE CREEK UNIT #1 Duchesne Co., Utah	2330	2340	10	Marl, olive gry to dk brn, as above
	2340	2350	10	Marlsta, as above, w interbed shale, blk to v dk brn, finely laminated, v waxy, v soft, sl flexible, v sl calc, difficultly inflammable but will burn w smoky flame — a rich oil shale.
	2350	2358	8	Marlstn, as above, w some interbed shale, med-gry, silty, hd, calc, earthy, abundant v fine muscovite flakes.
	2358	2360	2	Sandstn, v fine, <0.05-0.15 mm, v silty, subang, fairly hd, v calc, v tight, w spotty lt brn oil stn, slow CCl4 cut, weak lt yel fluor.
	2360	2390	30	Sandstn, med, 0.4-0.5 mm, fairly well sorted, ang, vit gtz, blk access common, fairly hard, v brittle, v calc, fairly tight, good even med brn oil stn, good CCl4 cut, golden fluor.
	2390	2395	5	Marlstn, as above, w thin interbed marl, rich dk brn, resinous, subwaxy, fairly hd, dse.
	2330	2395	65	

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JUN 10 1952

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HTR Well file

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MCCORMICK

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Property and Well Number	From	To	Thick-ness	CHARACTER OF FORMATION
The California Co ANTELOPE CREEK UNIT #1 DUCHESNE CO., UTAH	2395	2400	5	Marlston, as above.
	2400	2480	80	Marlston, gry to grn-gry, hd, dse, homog, waxy. Near top w thin bed(s) dolom, lt gry, sublittho, hd, dse, sl argill. Marl locally silty to v silty. Interbed med-brn marl, earthy to subwaxy, v calc, & marl med to dk brn, finely lam, burns w difficulty w smoky flame-rich oil shale.
	2480	2520	40	Marlston, buff, fairly soft, dse, locally sl silty, subearthy, w interbed oil shale, v rich, dk brn to blk, vitreous to subwaxy, flexible, finely lam, burns w smoky flame, esp abundant 2490-2500.
	2520	2530	10	Marlston, as above, w interbed grn-gry marl, as above, & tr selenite, transp.
	2530	2540	10	Marlston, as above, w interbed thin siltstn, buff to lt olive, hd, tight, v calc, argill. Tr dse brn chert.
	2540	2560	20	Marlston, v dolom, med grn-gry, v hd, dse, homog, earthy to subwaxy, v argill, locally w sl tr marcasite interbed w Marl & oil shale, as above
2395	2560	165		

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Property and Well Number	From	To	Thick-ness	CHARACTER OF FORMATION
The California Co ANTELOPE CREEK UNIT #1 DUCHESNE CO., UTAH	2560	2570	10	Marlstn, as above, w interbed sand & silt as follows: Sandstn, feldspathic, v. f. g., vhd-gtztc, lt gry, dse, v abundant biotite & blk ferromag xls, calc. Siltstn, dk gry vhd-gtztc, dse, abundant biotite, v fine pyrite (<math>0.01\text{ mm}</math>), calc. Tr brn xln mineral, insol $\text{H}_2\text{O}$ or HCl, hd, transl-transp, looks much like calcite but qint.
	2570	2580	10	Marlstn, as above, w interbed sand & silt: Siltstn, brn, hd, tight, sl calc, tr muscovite, silic. Tr sandstn, 0.3-0.4 mm, subang-ang, fair sort, hd, vit qtz, blk access common, sl silty, calc, tr pyr, fair pot.
	2580	2590	10	Sandstn, wh to dk gry-grn, v hd, tight, 0.1 mm, subang, fair sort, blk access common, tr muscovite, v calc, the gry-grn ss. v argill.
	2590	2600	10	Sandstn, as above, w interbed Marlstn, dk grn-gry, pyr & silty. Tr sandstn, 0.4 mm, fair sort, ang, hd, tight, blk access common, vit qtz, calc, w spotty dk brn oil stn, v slow celt cut, fair lt yel fluor.
	2600	2610	10	Marlstn, dk grn-gry, pyritic & silty, as above, & tr interbed fine sandstn, as above (2580-90)
	2610	2620	10	Dolom, gry-buff, hd, sl silty, earthy, dse, argill, locally finely lam. w interbed marl, as above.
2560	2620	60	Development Geologist <u>W. J. GREER</u>	

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Property and Well Number	From	To	Thick-ness	CHARACTER OF FORMATION
The Calif. Co. ANTELOPE CREEK UNIT #1 DUCHESNE CO., UTAH	2620	2700	80	Marlstn, lt to dk brn, subwoxy, homog, fairly soft; locally w lt brn v silty marl & some grn-gry marl; some interbed dolom, med-gry, hd, dse, homog, & siltstn, lt gry, hd, dse, tight, v calc.
	2700	2710	10	Marlstn, as above, w interbed Sandstn, 0.2-0.3 mm, poor sort, rnd, frost, hd, tight, calc, some blk access & mica, spotty to fairly even heavy blk oil stn, good CCl4 cut, no fluor except in solvent - dk yel.
	2710	2720	10	Marlstn, as above, w tr sand, as above, and tr ostracodal sandstn, v fine to silty, hd, tight, blk access. Ostracods ovoid to sl irreg-rnd, 0.15x0.25 & 0.4x0.6 mm.
	2720	2760	40	Marlstn, lt gry to buff, hd, dse, silty, earthy, fine muscovite, v calc; some interbed dk gry-grn marlstn, hd, homog, earthy, v sl silty. Tr silt in lower 10 ft, buff, hd, tight, v calc, tr blk access, muscovite common.
	2760	2780	20	Marlstn, as above, w interbed Sandstn, fine, <0.05-0.15 mm, poor sort, med gry, blk access common, abundant biotite & muscovite, hd, tight, v calc. Tr ostracod coquina in silt matrix, hd, dse, v calc. Ostracods sl ovoid to glob, 0.2-0.3 mm, some pyr repled. Some lt grn-gry marl.
	2780	2810	30	Marlstn, lt to dk gry & lt to dk brn, silty to homog, dse, etc. as above.
	2620	2810	190	

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Property and Well Number	From	To	Thickness	CHARACTER OF FORMATION
The Calif. Co. ANTELOPE CREEK UNIT #1	2810	2820	10	Marlstn, as above, w interbed siltstn, v finely sandy, lt brn, hd, tight, v calc, faint lt brn oil stn, dim yel fluor, slow ccl4 cut.
DUCHESNE CO., UTAH	2820	2830	10	Marl & silt, as above, & tr Sandstn, 0.2-0.4 mm, poor sort, rnd, wh gtz, calc, hd, fairly tight, w pin pt blk oil stn, fair ccl4 cut, faint yel fluor.
	2830	2840	10	Marlstn, as above, w tr interbed silt, as above
	2840	2860	20	Limestn, v lt gry, fairly hd, earthy, v argill (chalky).
	2860	2890	30	Marlstn, gry, grn-gry. & brn, as above. Traces siltstn, gry, hd, tight, calc, sandy. Thin interbed limestn, as above.
	2890	2900	10	Marlstn, as above, interbed w sandstn, v fine, 0.05 mm, fair sort, lt gry, hd, tight, subang vit gtz, few blk access, v calc.
	2900	2930	30	Marlstn, as above w much more dk gry color.
	2930	2990	60	Limestn, creamy-gry, soft, locally sl silty, v argill, earthy (chalk). Some interbed marlstn below 2950, grn-gry, sl bent, subwoxy, brittle.
	2990	3080	90	Interbed Limestn, as above, and marlstn, dk gry to dk brn, as above. Tr Sandstn 2990-3000, 0.1mm, fair sort, subang, lt gry, hd, v tight, v calc, few blk access, some mica. Traces ostracod cognina in limestn matrix, soft, fairly light, cream to dk gry, ostracods ovoid, 0.15 x 0.2, 0.3 x 0.5, 0.4 x 0.8, and 0.6 x 1.2 mm.
	2810	3080	270	

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WTR  
 Well bits

Property and Well Number	From	To	Thick-ness	CHARACTER OF FORMATION
The Calif. Co. ANTELOPE CREEK UNIT #1 DUCHESNE CO, UTAH	3080	3090	10	Interbed Limestn & Marlstn, as above, w tr siltstn, v finely sandy, med gry, v hd & dse, tight, v calc, few blk access, muscovite.
	3090	3100	10	Limestn & Marl w tr silt, as above, w tr Sandstn, f.g., 0.1 mm, fair sort, subang, few blk access & muscovite, v calc, silty, tight.
	3100	3190	90	Marlstn, as above, dk gry to dk brn, w thin beds of siltstn & sandstn, as above. Sandstn locally w pyrite & green mica.
	3190	3200	10	Marlstn, etc, as above, w thin beds ostracod coquina, ls matrix, hd, locally porous, pin pt brn stn, faint yel floor, no ccl cut to v poor cut. Ostracods ovoid, 0.3x0.6 mm, & rnd, 0.2 mm.
	3080	3200	120	

FILE ROOM  
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Property and Well Number	From	To	Thick-ness	CHARACTER OF FORMATION
The Calif. Co. ANTELOPE CREEK UNIT #1  DUCHESSNE CO., UTAH	3200	3210	10	Marlstn, dk gry to dk brn, sl silty to homog, earthy to subwaxy, fairly hard, dense, w interbed siltstn, v finely sandy, med gry, v hd & dse, tight, v calc, muscovite, few blk access; tr ostracod coquina, as above.
	3210	3220	10	Marlstn, as above, w minor interbed sandstn, fine 0.05-0.15 mm, subbrd, fair sort, vit qtz, blk access common, tr muscovite, v tight, v calc.
	3220	3240	20	Marlstn, as above, w minor silt & sand, as above, & interbed <u>limestn</u> , gry-buff, earthy, fairly hard, dense, sl silty.
	3240	3270	30	Limestn, as above, locally oolitic - oolites concentric banded, 0.3-0.4 mm diam. Locally interbedded Marlstn as above. Some ostracod coquina, locally, ostracods ovoid, 0.3x0.5 & 0.5x0.8 mm. Minor sandstn, fine, 0.1-0.2 mm, subbrd, vit qtz, fair sort, fairly hard, tr por, calc, uneven med brn stn, good cclty cut, lt yel fluor, 3250-70.
	3270	3354	84	Marlstn & siltstn, as above, interbedded. Locally traces ostracodal Limestn, as above. Minor dolom, med-brn, litho, sl earthy, hd & dse, top 20 ft. of interval.
	3354	3357	3	Limestn, buff, soft, earthy, abundant ostracods, ovoid, 0.25x0.5 & 0.3x0.6 mm; tight, tr faint blue fluor, v faint brn stn.
3200	3357	157	Development Geologist <u>W. J. GREER</u>	

1172  
Well #1

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Property and Well Number	From	To	Thick-ness	CHARACTER OF FORMATION
The Calif. Co. ANTELOPE CREEK UNIT #1  Duchesne Co., UTAH	3357	3414	57	Core #1
	3414	3500	86	<p>Marlstn, lt grn-gry, subwoxy, homog, dse, hd, interbed w med to dk brn marl &amp; oil shale, v finely laminated, subwoxy, dse. Locally w dk gry silty marl &amp; some med gry siltstn, hd, tight, finely sandy, common biotite, calc. In lower half of interval some dk gry marl, hd, subwoxy, and some limey dolom, buff, sublithe, earthy, dse, hd. 3420-30 some Sandstn, v.f.g., 0.05-0.1 mm, fair sort, subang, vit qtz, sl por, fairly soft, lt brn stn, no vis cut or fluor. v calc.</p>
	3500	3550	50	<p>Marlstn, as above, w thin interbed sandstn, fine, 0.1 mm, silty, fair sort, ang, sl calc, muscovite &amp; blk access present, lt gry, some por, locally w uneven med. brn stain, v faint yel fluor, v slow CCl4 cut.</p>
	3357	3550	193	

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Property and Well Number	From	To	Thick-ness	CHARACTER OF FORMATION
The Calif Co ANTELOPE CREEK UNIT #1	3550	3600	50	Marlstn, lt grn-gry, dk gry, med to dk brn, med gry-grn subwoxy to earthy, fairly soft, dense, homog to sl silty; w thin interbed Sandstn, lt gry, f.g. (0.1mm), subrnd, fair sort, v tight, hd, tr muscovite, v highly calc, no show. Mostly in 3580-90.
DUCHESNE CO, UTAH	3600	3620	20	Marlstn, as above, w thin interbed sandstone, v.f.g. (<0.05-0.1mm), silty, fair sort, subrnd, vit qtz, tr muscovite, v tight, v calc, locally w imbed ostracods, ovoid-pointed, 0.5x0.8 & 0.15x0.3 mm.
	3620	3640	20	Marlstn, as above, w interbed sandstn, v.f.g. (0.05mm), rnd, well sort, vit qtz, lt gry, tight, fairly calc, tr blk access, tr muscovite
	3640	3670	30	Marlstn, as above, w minor interbed limestn, buff to rich brn, sl silty, v argill, earthy, hd, dse. Tr sandstn, as above, in lower 10 ft.
	3670	3690	20	Marlstn, as above, w tr ostracod coquina in limestn matrix, ovoid, 0.25x0.5 mm.
	3690	3720	30	Marlstn, as above, w gry-grn becoming predominant. Tr siltstn, gry, hd, dse, tight, calc. Top 10 ft tr Sand, brn, v fine as above, tight, abundant biotite. Remaining 20 ft has tx sandstn, same except gry color.
	3550	3720	170	

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*Well file:*

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Property and Well Number	From	To	Thick-ness	CHARACTER OF FORMATION
The Calif. Co. ANTELOPE CREEK UNIT #1 DUCHESE CO., UTAH	3720	3770	50	Marlstn, as above, predominantly gry-grn. Top 10 ft has tr vdk red-brn earthy marl & tr dk blue-gry waxy sl bent marl. Top 20 ft has interbed siltstn, gry, sdy, dse, v highly calc, few imbed ostracods. Lower 30 ft has thin interbed sandstn, fine (0.05-0.1mm), poor sort, subrad, lt gry, hd, tight, few blk access, muscovite, v calc, no show. Dk gry marl abundant lower 10 ft.
	3770	3780	10	Marlstn, as above, w fine sandstone, as above locally w med brn oil stn, lt yel floor, v slow CCl4 cut.
	3780	3800	20	Marlstn, as above. Tr sandstn, as above, top 10 ft. Thin beds ostracods in silty limestn matrix, ostracods rnd, 0.1-0.4 mm diam. Tr siltstn, as above (3720-40) gry, sandy, etc, w common muscovite.
	3720	3800	80	

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 JUN 25 1952

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WJG  
 Well 21

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Property and Well Number	From	To	Thick-ness	CHARACTER OF FORMATION
The Calif. Co. ANTELOPE CREEK UNIT #1 DUCHESNE CO., UTAH	3800	3910	110	Marlstn, dk gry, med to dk brn, gry-grn, sl tr dk red-brn, earthy to subwaxy, dse, locally sl silty & sl micaceous, hd to fairly soft. Brn colors predominate. 3800-10 tr ostracods, rnd, 0.1-0.4, in silty ls matrix 3810-20 interbed siltstn, gry, dse, fine muscovite, v calc, no show 3810-30 tr Sandstn, cglintc, rnd blk chert grains 0.25-1.0mm. in lime matrix, tight, no show 3820-40 interbed Sandstn, v.f.g. (<0.1mm), vit qtz, subang, lt gry, silty, hd, blk access common, v calc, tight, muscovite common. 3850-60 tr Sandstn, fine (0.15-0.25), clear, vit qtz, wh, ang, poor sort, imbed ostracods, rnd, 0.2-0.4mm, blk, sl por, hd, v calc, no show. 3870-90 tr ostracodal limstn, brn, ovoid, 0.4x0.6 to 0.5x0.8 3890-3910 some interbed siltstn, gry, dirty, micaceous, v calc, fairly soft, v light, no show.
	3910	3920	10	Sandstn, fine (0.15mm), ang, well sort, vit qtz, lt gry, sl por, hd, friable, v calc, locally w uneven faint brn stn, faint yel-grn fluor, v slow CCL4 cut, interbed Marl, as above.
	3920	3930	10	Sandstn, v.f.g. (0.05) subang, fair sort, v calc, v light, occasional w tr oil stn, as above
	3800	3930	130	

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Property and Well Number	From	To	Thick-ness	CHARACTER OF FORMATION
The Calif Co ANTELOPE CREEK UNIT #1 DUCHESNE CO., UTAH	3930	3934	4	Marlstn, v dk brn, earthy to subwoxy, etc., as above.
	3934	3991	57	Core #2, rec. 57' Shale, marl, and sand.
	3991	4000	9	Shale, dk gry, dk gry-grn, & minor dk red-brn, v sl calc, hd, dse, homog, subwoxy, w some Marlstn, med brn, hd, dse, earthy. Some Sandstn, v.f.g., (0.05), subang, vit qtz, tr blk access, hd, tight, silty, v calc, n.s.
	4000	4010	10	Sandstn, f.g. (0.05-0.15 mm), fair sort, subang, vit qtz, minor blk access, lt gry, fairly hd, silty, calc, tight, n.s.
	4010	4020	10	Shale, as above
	4020	4030	10	Shale, as above, w interbed Sandstn, f.g., (0.1mm), rnd, well sort, v calc, sl silty, v tight, n.s., 60% vit qtz - 40% blk access.
	4030	4040	10	Shale & Marlstn, as above
	4040	4050	10	Shale & Marlstn, as above, w interbed Sandstn, f.g., (0.1mm), fair sort, subang, vit qtz, tr blk access, hd, tight, v calc, silty, tr muscovite, no show except few pieces, have uneven med brn stn, faint yel-grn fluor, no cut to v slow cut in ether or cell.
3930	4050	120	Shale, marl, & sand	

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Property and Well Number	From	To	Thick-ness	CHARACTER OF FORMATION
The Calif. Co. ANTELOPE CREEK UNIT #1	4050	4070	20	Shale, dk gry w minor dk red-brn, as above, & Marlstrn, gry-grn, buff, & brn, as above.
DUCHESNE CO, UTAH	4070	4080	10	Shale & Marl, as above, w some interbed Sandstrn, v.f.g., (0.05-0.1mm), fair sort, subrnd, vit qtz, lt gry, tr blk access & muscovite, v calc, v tight.
	4080	4090	10	Shale & Marl, as above, tr Sandstrn, as above. w loose sand common, v.f.g., subang, brn, w loose ostracods, ovoid, 0.4x0.6, v calc, faint suggestion of brn oil strn, no cut or floor.
	4050	4090	40	

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Property and Well Number	From	To	Thick-ness	CHARACTER OF FORMATION
The Calif. Co. ANTELOPE CREEK UNIT #1 DUCHESNE CO., UTAH	4090	4150	60	Shale, dk gry & minor red-brn, as above, and Marlstn, lt gry-grn. buff, & brn, as above, Locally w interbed Sandstn, v.f.g. to silt (<0.05), subbrnd, vit qtz, v calc. v tight, no show. Tr lt grn bent. sh. at 4130-40 Sl tr pyrite 4140-50 Tr ostracodal limestn, buff, dse, soft, argill, ostracods ovoid, 0.3x0.5 mm, 4140-50. Marl <sup>rare</sup> abundant 4140-50 - rich dk brn to med brn.
	4090	4150	60	

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Property and Well Number	From	To	Thick-ness	CHARACTER OF FORMATION
The Calif. Co. ANTELOPE CREEK UNIT #1 DOMESNE CO., UTAH	4150	4180	30	Shale, dk gry & vdk red-brn, as above; w interbed marlstr, buff, brn, & lt gry-grn, as above. Locally w interbed sandstr, v.f.g. (0.05 mm), vit qtz, well sorted, subrnd, tr blk access, v calc, soft, tight, n.s.
	4180	4220	40	Marlstr, buff to med-brn, as above; minor interbed shale, dk gry & dk red-brn, as above. Some dolom 4190-4200, med-gry, litho, hd, dse, argill.
	4220	4260	40	Shale, dk gry, subwaxy, etc, as above, minor dk red shale as above. Minor amount of Marlstr, as above. 4230-40 interbed oolitic limestn, oolites rnd, concentric banded, 0.2-0.8 mm, brn, dse, in v fine xln brn ls matrix. 4240-50 interbed sandstr, v.f.g., (0.05 mm), well sort, subang, vit qtz, lt gry, tr blk access, tr muscovite, v calc, fairly soft, tight, n.s.
	4150	4260	110	

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PROPERTY AND WELL NUMBER	FROM	TO	THICKNESS	CHARACTER OF FORMATION	PAGE 22
The California Co. ANTELOPE CREEK LIMIT #1 DUCHESSNE CO., UTAH	4260	4434	174	Claystone, dk gry, lt gry-grn, buff, brn, sl calc, waxy to earthy, locally sl silty ("Marlsten"), minor dk red-brn mudstn, earthy, sl calc. Following interbedded: 4290-4300 tr ostracod coquina, ovoid-rnd, 0.2-0.3 mm, blk, smooth, in dse & tight silty matrix. 4300-10 interbed Sandstn, v.f.g. (0.05), silty, lt gry, subang, vit qtz, tr mica & blk access, v tight, v calc, no show. 4330-40 interbed Sandstn, v.f.g. (0.05), subang, vit qtz, fair sort, lt gry, v calc, v tight, no show. 4360-70 tr siltstn, gry, hard, tight, calc, sl mica, dirty, n.s. 4390-4400 tr dolom, v f xln, suc, dse, argill, dk brn. 4400-10 tr limestn, lt brn, litho, argill, dse. 4410-34 interbed Sandstn, v.f.g. (<0.05), poor sort, silty, few blk access, some muscovite, v tight, v calc, n.s.	
	4434	4491	57	Core #3, rec. 57 ft.	
	4491	4570	79	Claystone, dk gry to dk grn-gry, subwaxy, v sl calc, locally silty, locally w thin streaks siltstn to v.f.g. sandstn w abundant muscovite, v calc, v tight. Locally minor dk red-brn mudstn, earthy, v sl calc, tr claystn, grn, waxy, bent, v. fine pyr. Below 4510 fairly abundant claystn, dolom, buff to brn, earthy, dse.	
	4260	4570	310		

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CC-140

HTR  
West Well

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PROPERTY AND WELL NUMBER	FROM	TO	THICK-NESS	CHARACTER OF FORMATION
The Calif. Co. ANTELOPE CREEK UNIT #1 DUCHESNE CO., UTAH	4570	4580	10	Claystn, v calc, buff to dk brn, earthy, hard, dense, v argill, locally sl silty. ("Marlstn")
	4580	4700	120	Claystn, dk gry - dk grn-gry, as above 4570. Minor dk red-brn mudstn, as above. Tr v fg sandstn, (0.05-0.1), subang, poor sort, vit qtz, v calc, tight, no show. Locally fairly abundant buff-brn v calc claystn as above at 4570-80. 4590-4600 Minor interbed siltstn, lt gry to gry-grn, mica, v calc, tight, no show. 4600-20 interbed Sandstn, v.f.g (0.05-0.1), fair sort, vit qtz, subang, few blk access, tr muscovite, tight, calc, n.s. 4660-90 interbed siltstn, as above, & v fg sandstn, as above.
	4570	4700	130	

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JUL 8 1952

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PROPERTY AND WELL NUMBER

FROM

TO

THICKNESS

CHARACTER OF FORMATION

PAGE 24

Calif. Co.  
Antelope Creek  
Unit #1  
Duchesne Co., Utah

4700 4730 30

Claystone w/interbedded sandy siltstone, claystr, DK Gr - DK gr Grn, M. Brn, Dolomitic, Silty, carbonaceous in part. hd, dense, tight (Marlstone) Siltstr, Lt. Gr. - Gr Grn, sdy in pt. Poorly sorted, Lintite and muscovite common, Calc, v. hd. + tight.

30-40 Tr DK Gry ostracodal Coguna, v hd. tite ostracods DK Gry, ovoid .2 - .4 mm.

4730 4750 20

Claystone as Above with Locally interbedded moderately red brown shale (Modstr)

4750 4758 8

Claystr, Dull Brn, earthy, firm, Calc., Silty

4758 4813 55

Core #4 Rec. 55'

4813 4870 57

Core #5 Rec. 57'

4870 4927 57

Core #6 Rec. 57'

4927 4950 23

Claystr (Marlstr) DK Gr - Gr. Grn., Sl Calc, Silty in pt. Tr biotite in Gr. Grn, hd. tite, no show, Tr. DK. Gr. ostracodal Coguna near base w/ dk. Brn. oil st. ostracods DK. Gry (.4 - .6 mm)

4950 4960 10

sandstone, Lt. Gr., vfg (.06 - .1 mm) Poorly srted, sub Ang. frstd gtz, blk access. common, Micaceous, Calc, hd. tite no shows.

4960 4962 2

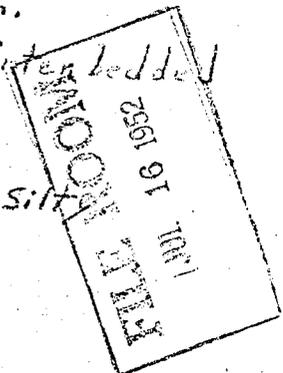
Interbedded claystr, Coguna, and sandstr, calc, tite, hd. sandstr, oil st. vfg (.17 - .2 mm) Poorly srted, calc, tite, hd.

4700 4962 262

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W. J. Greer  
by Joe Stigmund

CC-140



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Went to

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PROPERTY AND WELL NUMBER	FROM	TO	THICK-NESS	CHARACTER OF FORMATION
The Calif. Co ANTELOPE CREEK UNIT #1 DUCHESNE CO., UTAH	5287	5460	173	Claystn, locally mudstn, dk red-brn, dk choc-brn, dk gry, dk gry-grn, ochre, mottled & interlayered. Gray predominant. Subearthy, non-calc to locally sl calc, fairly hard, locally irreg slickensided surfaces.
				5310-20 tr Silt stn, sl sdy, lt gry, hard, tight, v calc, sand grains 0.1mm, vit qtz, subang. Tr. blk access.
				5330-40 interbed Silt-to v lg ss, as above, biotitic. no shows.
				5340-50 interbed Siltstn, dk gry "dirty"; v calc, tight, no show
				5350-60 interbed Sandstn, v fg (0.1mm), subang, vit qtz, lt gry, common blk access, tr red & grn access, v calc, tight, no show. Some rich brn earthy claystn, v calc, v finely lam.
				5370-80 loose sand common = v fg (0.1), vit qtz, subang, blk access, v calc, n.s.
				5400-10 tr v fg pyrite (0.05 mm) cubes in grn waxy claystn.
				5410-20 tr silt, sandy, lt gry, as above
				5420-30 tr loose sand, as above, no shows
	5287	5460	173	DEVELOPMENT GEOLOGIST <u>W. J. GREER</u>

5310-20  
 5330-40  
 5340-50  
 5350-60  
 5370-80  
 5400-10  
 5410-20  
 5420-30

HCH  
well logs

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1952

PROPERTY AND WELL NUMBER	FROM	TO	THICK-NESS	CHARACTER OF FORMATION
The Calif. Co. ANTELOPE CREEK UNIT #1  DICHESNE CO, ILLAH	5460	5560	100	Claystn, locally mudstn, as above. DK gray color most abundant (75% or more generally). Dark red-brn fairly common, esp. 5480-5510. Very common lt brn & lt olive at 5510-30, earthy, hard, fairly calc, but present throughout. No sand or silt. No shows.
	5460	5560	100	

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~~1001~~  
Well 101

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PROPERTY AND WELL NUMBER	FROM	TO	THICK-NESS	CHARACTER OF FORMATION
The Calif. Co. ANTELOPE CREEK UNIT #1  DUCHESNE CO, UTAH	5560	5590	30	Clays <sup>tn</sup> , locally mud <sup>stn</sup> , as above. Dark gry predominant, brown & dk red common, red decreasing slightly. Traces of yel-grn. Lower 10 ft has some interbed brown limest <sup>n</sup> , earthy dense, soft, v argill, brn oil st <sup>n</sup> , fair yel fluor, v slow ccl <sup>y</sup> cut. Traces of silty mud <sup>stn</sup> to v argill silt <sup>stn</sup> scattered through interval - med gry, hd, dse, non-calc.
	5560	5590	30	

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PROPERTY AND WELL NUMBER	FROM	TO	THICKNESS	CHARACTER OF FORMATION
The Calif. Co. Antelope Creek Unit #1 Duchesne Co. Utah	5648	5650	2	Claystone, with local thin Ls. beds, claystone, Med Gry Grn, To DK. Gry. Dolomitic, sl. silty, somewhat slickensided.
	5650	5660	10	Ls, v. Argillaceous, Dolomitic, earthy, set to firm, Lt. Brn., Tr. calc. chert, Tr. xline calcite (.2-4 mm) Tr DK. Brn. oil str. on frac. plane.
	5660	5690	30	Claystone with local Ls. beds as above, claystr, micaceous, sl pyritic, Dolomitic, Predominantly <sup>DK</sup> Gry to Gry Grn. with some Med. red Brn. 80-90 Tr. Lt. Gry siltstone
	5690	5700	10	Claystone as above with interbedded <i>Cogina</i> , ostracodal, ostracods, buff to brn. ovoid (.4 - 1.0 mm)
	5700	5710	10	Limestone, Lt Gry, xline (.1-.2 mm) Aren., Biotitic, Tr. intergranular Por. Some Del. Argill, Lithographic to SubLitho., dense, Tight.
5648	5710	62		

DEVELOPMENT GEOLOGIST J. E. Siegmund

Well logs

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19 52

PAGE 29 (FINAL)

PROPERTY AND WELL NUMBER	FROM	TO	THICKNESS	CHARACTER OF FORMATION
The Calif. Co. ANTelope CREEK UNIT #1 D. Sine Co., Utah	5940	6079	139	Mudstn, sl to v silty, to claystn, dk red-brn, dk red, purp, dk blue-gray, locally dk gray-grn & dk brn, v sl calc to fairly calc, locally mica. Typical Wasatch and same as cored wasatch above.  6010 to thin interbed sandstn, fine (0.15mm), well sort. rnd, vit qtz, wh to brn, v highly calc, silty, light, no show, abundant green & brown access.
	5940	6079	139	Total Depth

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AUG 19 1952

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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

5. LEASE DESIGNATION AND SERIAL NO.  
UTU-77315

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL  DEEPEN  PLUG BACK

7. UNIT AGREEMENT NAME

1b. TYPE OF WELL  
OIL WELL  GAS WELL  OTHER   
SINGLE ZONE  MULTIPLE ZONE

8. FARM OR LEASE NAME  
ANTELOPE CREEK #1

2. NAME OF OPERATOR  
Medallion Exploration

9. WELL NO.  
#1

3. ADDRESS OF OPERATOR  
P.O. Box 1328 Roosevelt, Utah 84066 435-722-4600

10. FIELD AND POOL OR WILDCAT  
WILDCAT

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

11. SEC., T., R., M., or BLK.  
AND SURVEY OR AREA  
SEC. 24, T6S, R4W

At Surface NE/NE, 548' ENL & 519' ENL, SEC. 24

At proposed Prod. Zone FEL

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
22 MILES SOUTHEAST OF MYTON, UTAH

12. COUNTY OR PARISH  
DUCHESNE

13. STATE  
UTAH

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)  
519'

16. NO. OF ACRES IN LEASE  
2,222.74

17. NO. OF ACRES ASSIGNED TO THIS WELL  
320

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT.  
4100'

19. PROPOSED DEPTH  
7350'

20. ROTARY OR CABLE TOOLS  
ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

22. APPROX. DATE WORK WILL START\*  
UPON APPROVAL

23. PROPOSED CASING AND CEMENTING PROGRAM

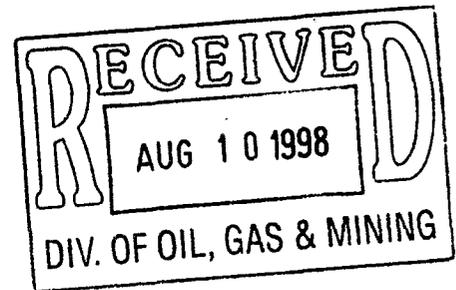
SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMENT
13 3/8"	10 3/4"	40.5	489'	
9 7/8"	7"	23#	5204'	242 SKS was pumped Aug 1952
6 1/8"	4 1/2" Liner	11.6#	5,000' to 7,350'	332 sks G w/10% gypsum, 10% salt .4 % FL-52. Accurate amounts from log.

Medallion Exploration proposes to clean out P&A plugs to 5204' in 7" casing. Test 7" casing to 2500 psi. Drill to a depth of 7350' (estimate) and test the Chapita B formation. If well is productive when a 4 1/2" liner will be run and cemented. If well is not a producer then the Chapita formation will be plugged back as per BLM requirements at which time Medallion Exploration will propose to perforate and test the Greenriver formation. If the well is not completed has a producer in the Greenriver formation it we be P&A has per USFS & BLM recommendations.

561791.3  
4472334.0

All operations will be covered under Medallion Explorations federal bond # UT-1066.

This APD is also request for Right-of-way



- C; 3- BLM, Vernal
- C; 2- USFS, Vernal
- C; 2- Utah Div. Of Oil, Gas, and Mining

IN ABOVE SPACE DESCRIBE PROPOSE DRILLING 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.

24. SIGNED Steven Hand TITLE FIELD SUPERINTENDENT DATE 6-Aug-98

(THIS SPACE FOR FEDERAL OR STATE OFFICE USE.) **Federal Approval of this Action is Necessary**

PERMIT NO. 43-013-10173 APPROVAL DATE  
APPROVED BY Bradley G. Hill TITLE **BRADLEY G. HILL RECLAMATION SPECIALIST III** DATE 8/20/98

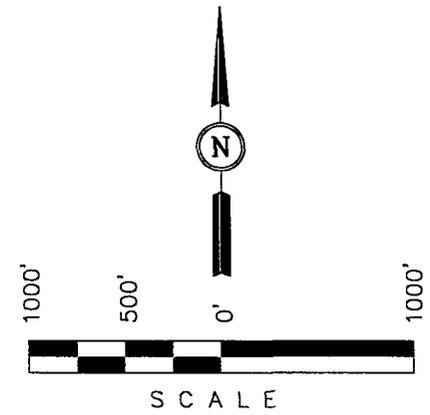
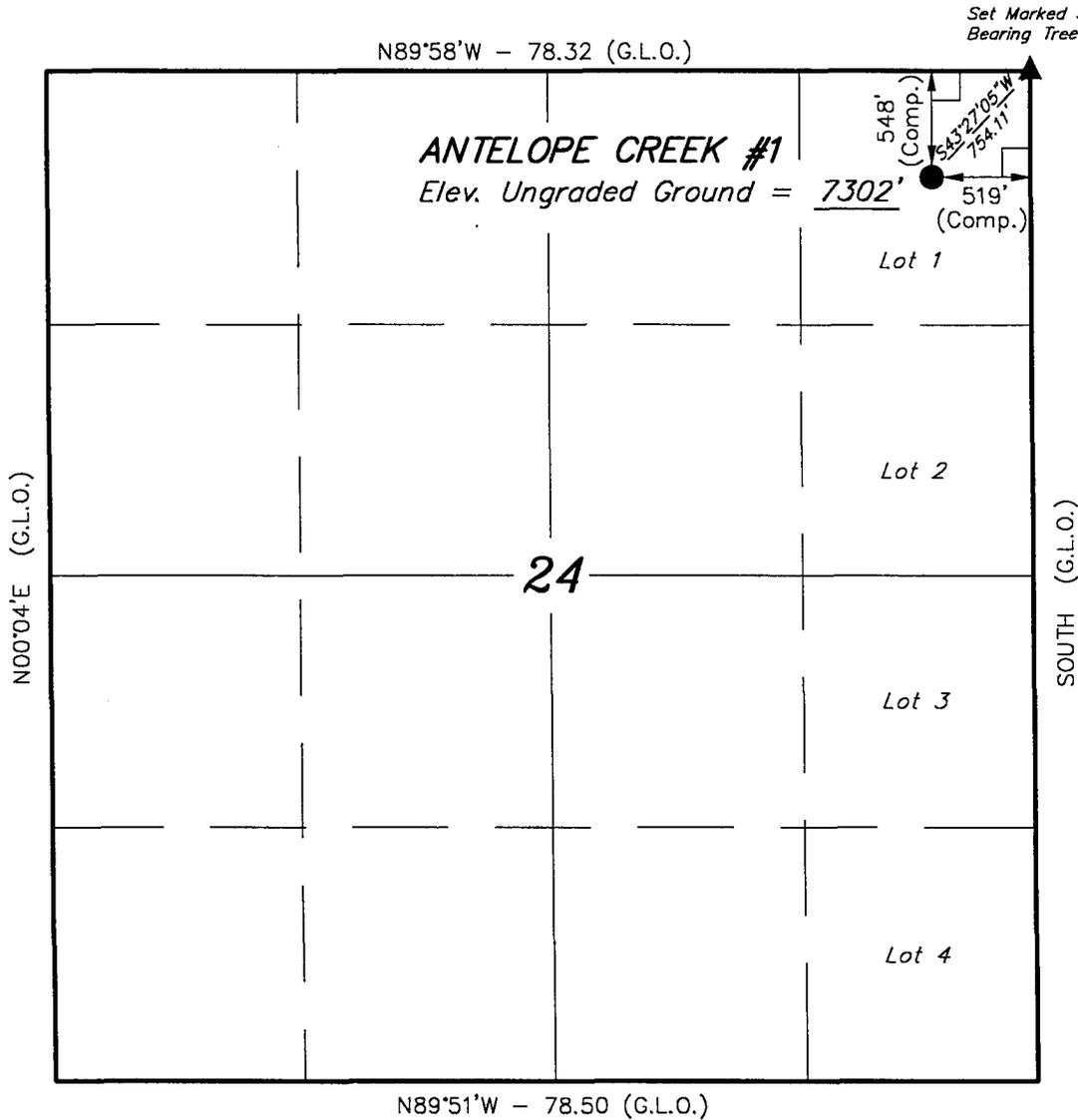
# T6S, R4W, U.S.B.&M.

## MEDALLION EXPLORATION

Well location, ANTELOPE CREEK #1, located as shown in Lot 1 of Section 24, T6S, R4W, U.S.B.&M. Duchesne County, Utah.

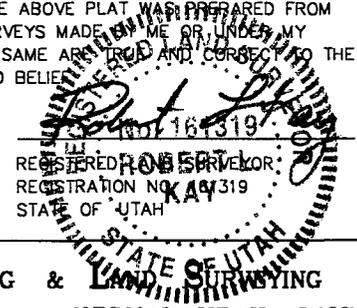
### BASIS OF ELEVATION

TRIANGULATION STATION GILSONITE LOCATED IN THE SE 1/4 OF SECTION 13, T6S, R4W, U.S.B.&M. TAKEN FROM THE ANTHRO MTN. NE, QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 7370 FEET.



### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



<b>UINTAH ENGINEERING &amp; LAND SURVEYING</b> 85 SOUTH 200 EAST - VERNAL, UTAH 84078 (435) 789-1017		
SCALE 1" = 1000'	DATE SURVEYED: 7-2-98	DATE DRAWN: 7-13-98
PARTY K.K. T.A. C.B.T.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE MEDALLION EXPLORATION	

### LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

### NOTE:

BASIS OF BEARINGS IS A SOLAR OBSERVATION TAKEN IN LOT 1 OF SECTION 24, T6S, R4W, U.S.B.&M.

**ONSHORE ORDER NO**  
**MEDALLION EXPLORATION, INC.**  
Antelope Creek No. 1 Lease No. UTU-77315  
 548' FNL and 519' FEL  
 NE/ NE Sec 24, T6S - R4W  
 Duchense County, Utah

**DRILLING PROGRAM**

**ONSHORE OIL & GAS ORDER NO. 1**  
**Approval of Operations on Onshore**  
**Federal and Indian Oil and Gas Leases**

All Lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Order No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

1. **Estimated Tops of Important Geologic Markers:**

<u>Formation</u>	<u>Depth</u>	<u>Subsea</u>
Green River	Surface	
Wasatch	5718'	+1584'
Chapita B	7274'	+28'
T.D.	7350'	-348

2. **Estimated Depths of Anticipated Water, Oil, Gas or Minerals Formation**

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
Gas & Oil	Greenriver	4950'
Gas	Chapita B	4730'

All fresh water prospectively valuable minerals encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

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**DRILLING PROGRAM**

**3. Pressure Control Equipment: ( Schematic Attached)**

Medallion Exploration minimum specifications for pressure control equipment are as follows:

Ram Type: 7 1/16" Hydraulic double , 5000 psi w.p. Over Rig only.  
Ram Type: 10" Hydraulic double , 3000 psi w.p. Drilling Rig only.

Ram type preventors and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 70 percent of internal yield pressure of casing. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer. If a test plug is utilized, no bleed-off pressure is acceptable. For a test not utilizing a test plug, if a decline in pressure of more than 10 percent in 30 minutes occurs, the test shall be considered to have failed. Valve on casing head below test plug shall be open during test of BOP stack.

Annular type preventers if used for this re-entry shall be tested to 50% of rated working pressure. Pressure shall be maintained at least 10 minutes or until provisions of test are met., whichever is longer.

As a minimum, a test shall be performed:

- a. when initially installed;
- b. whenever any seal subject to test pressure is broken
- c. following related repairs; and
- d. at 30-day intervals

Valves shall be tested from working pressure side during BOPE tests with all down stream valves open.

Pipe and blind rams shall be activated each trip, however, this function need not be performed more than once a day.

Pressure tests shall apply to all related well control equipment.

All of the above described tests and/or drills shall be recorded in the drilling log.

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**DRILLING PROGRAM**

Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection will be recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs.

- a. The size and rating of the BOP stack as shown on a diagram, most of the equipment for this depth of hole in the area use a 3000 psi working pressure blowout preventor.
- b. The accumulator system shall have a pressure capacity to provide for repeated operations of hydraulic preventers.
- c. Drill string safety valve(s), to fit all tools in the drill string, are to be maintained on the rig floor while drilling operations are in progress.

4. **proposed Casing and Cementing Program:**

- a. All indications of usable water shall be reported.
- b. All indications of usable water shall be reported to the authorized officer prior to running the next string of casing or before plugging orders are requested, whichever occurs first.
- c. All casing strings below the conductor shall be pressure tested to 0.22 psi per foot of casing string length or 1500 psi, whichever is greater, but not exceed 70 percent of the minimum internal yield. If pressure declines more than 1- percent in 30 minutes, corrective action shall be taken.
- d. The casing in the well was run as follows:

<u>Purpose</u>	<u>Depth</u>	<u>Hole Size</u>	<u>O.D.</u>	<u>Weight</u>	<u>Grade</u>	<u>Type</u>	<u>NEW Or Used</u>
Surface	0-489'	13-3/8"	10 3/4"	40.5#	J-55	ST&C	New
Intermediate	0-5204'	9 7/8"	7"	26#	N-80	LT&C	New
Liner will be run after well as been deepened.							
Produc.	5000'-7350'	6-1/8"	4-1/2"	11.6#	N-80	LT&C	New*

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**DRILLING PROGRAM**

e. The cement program was pumped as follows:

Surface  
0-489'

Type and Amount

? It was reported that cement was circulated to surface.

Intermediate  
0-5204

Type and Amount

242 sks. Cement was pumped August 1952.

Production  
5000' - 7350'

Type and Amount

332 sksG w/10% gypsum, 10% salt, .4% FL-52.  
Actual amounts will be taken from logs.

f. The following reports shall be filed with the District Manager within 30 days after the work is completed.

1. Progress reports, Form 3160-5 (formerly 9-331) "Sundry Notices and Reports on Wells", must include complete information concerning:

a. Weekly progress report. Show the spud date on the first reports submitted.

g. Auxiliary equipment to be used is as follows:

1. Kelly cock
2. No bit float is deemed necessary.
3. A sub with a full opening valve.

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**DRILLING PROGRAM**

5. **Mud Program:**

a. The proposed circulating mediums to be employed in drilling are as follows:

<u>Interval</u>	<u>Mud Type</u>	<u>Mud Wt.</u>	<u>Visc.</u>	<u>F/L</u>	<u>PH</u>
0-5204'	3% KCL	8.4-8.6	N/C	NC	N/C
5204' - 7350'	LSND	8.6-9.4	36-38	10-15cc	9.0

Sufficient quantities of mud materials will be maintained or readily accessible for the purpose of assuring well control during the course of drilling operations.

b. Mud monitoring equipment to be used is as follows:

1. Periodic checks will be made each tour of the mud system. The mud level will be checked visually.

c. No chromate additives will be used in the mud system on Federal and/or Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

d. No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

e. The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

6. **Evaluation Program:**

The anticipated type and amount of testing, logging and coring are as follows:

a. No drill stem tests are anticipated, however, if they are run the following will be adhered to:

Initial opening of drill stem test tools shall be restricted to daylight hours unless specific approval to start during other hours is obtained from the authorized officer. However, DST's may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate

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**DRILLING PROGRAM**

lighting is available (i.e. lighting which is adequate for visibility and vapor-proof for safe operations). Packers can be released, but tripping shall not begin before daylight, unless prior approval is obtained from the authorized officer. Closed chamber DST's may be accomplished day or night.

A DST that flows to the surface with evidence of hydrocarbons shall be either reversed out of the testing string under controlled surface conditions. This would involve provided some means for reverse circulation.

Separation equipment required for the anticipated recovery shall be properly installed before a test starts.

All engines within 100 feet of the wellbore that are required to "run" during the test shall have spark arresters or water cooled exhausts.

- b. The logging program consisted of a DIL-GR from T.D. to base of surface casing with the GR to surface. A CNL-FDC and FMI will be run from T.D. to 1000' (minimum run). A DSI-GR will be run for T.D. to base of surface casing.
- c. No cores will be taken.
- d. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the authorized officer (AO).
- e. The anticipated completion program is as follows:  

The Castlegate, Mesa Verde and the Wasatch formations will be perforated, tested and sand fraced if necessary in sequence until a paying zone has been establish.
- f. Daily drilling and completion progress reports shall be submitted to the BLM in Vernal on a weekly basis.

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**DRILLING PROGRAM**

7. **Abnormal Temperatures of Pressures**

- a. No abnormal temperatures or pressures are anticipated. No H<sub>2</sub>S has been encountered in or known to exist from previous wells drilled to similar depths in the general area.
- b. The maximum anticipated bottom hole pressure will be approximately 1950 psi at T.D.

8. **Anticipated Starting Dates and Notification of Operations:**

- a. Drilling will commence immediately upon approval of this application and or upon the availability of a rig.
- b. It is anticipated that the re-entry of this well will take approximately 5 days.
- c. The Vernal District Office shall be notified, during regular work hours (7:45 a.m. - 4:30 p.m., Monday through Friday except holidays), at least 24 hours prior to spudding the well.
- d. Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.
- e. The date on which productions is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

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DRILLING PROGRAM

- f. Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operation may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.
- g. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the A.O. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.
- h. The spud date will be reported orally to the AO within 48 hours after spudding. If the spudding occurs on a weekend or holiday, the report will be submitted on the following regular work day. The oral report will be followed up with a Sundry Notice.
- i. In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 3160-6 "Monthly Report of Operations", starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report will be filed with the Vernal BLM District Office, 170 South 500 East, Vernal, UT 84078.
- j. Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.
- k. If a replacement rig is contemplated for completion operations, a "Sundry Notice" Form 3160-5 to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

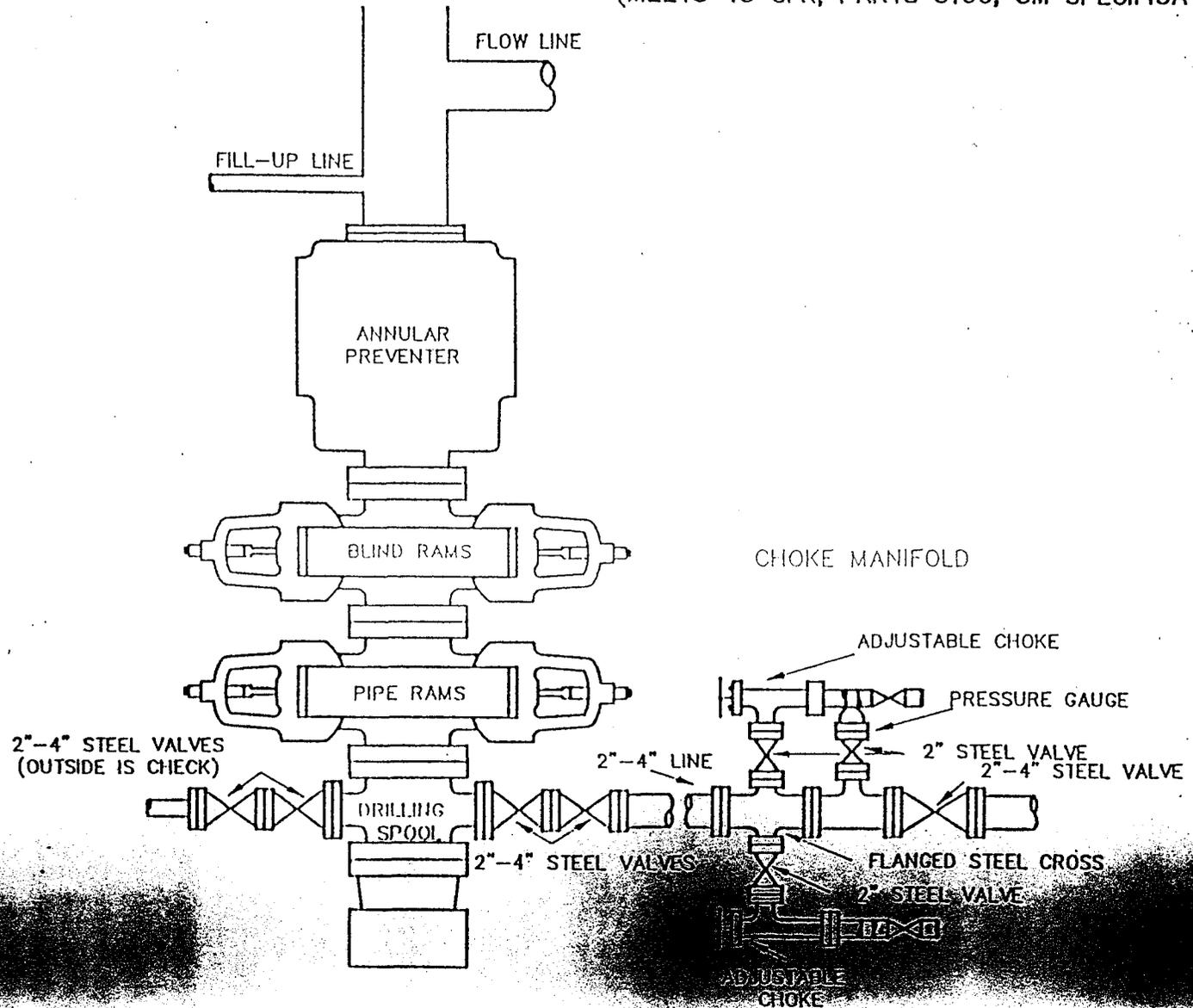
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- l. Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communications, not later than 5 days following the date on which the well is placed on production.
- m. Pursuant to Onshore Order No. 7, with the approval of the District Engineer, produced water may be temporarily disposed of into unlined pits for a period of up to 90 days. During the period so authorized, an application for approval of the permanent disposal method, along with the required water analysis and other information, must be submitted to the District Engineer.
- n. Pursuant to NTL-4A, lessees or operators are authorized to vent/flare gas during initial well evaluation tests, not exceeding a period of 30 days or the production of 50 MMCF of gas, whichever occurs first. An application must be filed with the District Engineer and approval received, for any venting/flaring of gas beyond the initial 30 day or authorized test period.
- o. A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3 and 3162.7-4 shall be submitted to the appropriate District Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in 43 CFR 3162.7 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.
- p. A first production conference will be scheduled within 15 days after receipt of the first production notice.
- q. No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.
- r. Pursuant to Onshore Oil and Gas Order No. 1, lessees and operators have the responsibility to see that their exploration, development, production, and construction operations are conducted in a manner which conforms with applicable Federal laws and regulations and with State and local laws and regulations to the extent that such State and local laws are applicable to operations on Federal or Indian lands.

Typical BOP Equipment: Actual Configuration May Vary Slightly But Will Conform With Onshore Order No. 2

THREE PREVENTER HOOKUP  
CLASS III  
(MEETS 43 CFR, PARTS 3160, 3M SPECIFICATIONS)



Medallion Exploration  
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Lease No. UTU-77315

SURFACE USE PLAN

**ONSHORE OIL & GAS ORDER NO. 1**

**NOTIFICATION REQUIREMENTS**

- Location Construction - forty-eight (48) hours prior to construction of location and access roads.
- Location Completion - prior to moving on the drilling rig.
- Spud Notice - at least twenty-four (24) hours prior to spudding the well.
- Casing string and - twenty-four (24) hours prior to running casing and cementing all casing strings.  
Cementing
- BOP and Related - twenty-four (24) hours prior to initiating pressure tests.  
Equipment Tests
- First Production - within five (5) business days after new well begins or production resumes after  
Notice well has been off production for more than ninety (90) days.

The onsite inspection for the subject well was conducted on Wednesday, July, 29, 1998 at approximately 9:30 a.m. Weather conditions were warm and sunny. In attendance at the onsite inspection were the following individuals:

Craig Darlington  
Steven Lamb  
Gene Caldwell  
Chauncie Todd  
Barry Burkhardt  
John E. Fausett  
Jim Justice

Bureau of Land Management  
Medallion Exploration  
Medallion Exploration  
USFS  
USFS  
Fausett INC. Construction  
J-West

Medallion Exploration  
Antelope Creek #1  
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SURFACE USE PLAN

1. Existing Roads

a. The proposed well site is located approximately 26.1 miles southwest of Myton, Utah.

b. Directions to the location from Myton, Utah is as follows:

Proceed in a southwesterly direction for approximately 8.8 miles to the junction of this road and the Sowers Canyon road to the south. Turn left onto the Sowers Canyon road and continue on a southerly direction for approximately 6.6 miles. Turn left onto the Antelope Canyon road and proceed in a southerly direction 1 - mile to an existing road to the left. Turn left and proceed east for .6 - miles to the junction of this road and an existing road to the south. Turn right and proceed south approximately 9.1 miles to the junction of this road and a road to the west. Turn left and proceed west .2-miles to the proposed location.

c. For location of access roads within a 2-Mile radius, see Maps A & B.

d. Improvement to the existing access will not be necessary.

e. All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.

f. Existing roads and newly constructed roads on surface under the jurisdiction of any Surface Managing Agency shall be maintained in accordance with the standards of the SMA.

2. Planned Access Roads

a. Approximately .2 miles of access will need to be upgraded. Flat blading is all that will be required as shown on Map A.

b. The maximum grade of the access will be approximately 4%.

c. No turnouts are planned.

d. Some low water crossings will not be necessary. There are no major cuts and fills. No culverts and/or bridges will be required.

e. If well is completed and put on production then all roads will conform to SMA.

f. The use of surfacing material is not anticipated, however it may be necessary depending on weather conditions.

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SURFACE USE PLAN

- g. No cattle guards will be installed.
- h. Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.
- i. Access roads and surface disturbing activities will conform to standards outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development. (1989).
- j. The road will be constructed/upgraded to meet the standards of the anticipated traffic flow and all weather road requirements. Construction/upgrading shall include ditching, draining, graveling, crowing and capping the roadbed as necessary to provide a well constructed safe road. Prior to upgrading, the road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 30 foot right-of-way will not be allowed. Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossing nor shall the drainage's be blocked by the roadbed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided.
- k. No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well,. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produce, stored, transported, or disposed of in association with the drilling of this well.
- l. A right of way will be necessary for access roads located outside of Lease No. UTU-77315. Total length of the right of way will be approximately 3- miles . An additional .4 - miles is located within the lease. Right of Way may be issued to the wellhead if preferred by your office.

For location of right of way, please see Map "B" attached. The following USFS acreage will be affected:

T12S-R25E

Sec. 13:	E/2
Sec. 12:	S/E/1/4
Sec. 7:	W/2
Sec. 6:	S/W/1/4 & N/E/1/4

There are no related structures or facilities planned at this time.  
If well is completed as a producer then a surface pipeline will need to laid.

The right of way is requested for 30 years or the entire life of the producing well, whichever is longer.

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SURFACE USE PLAN

The road will be used year-round for maintenance of production facilities. Only flat blading of the existing roadway will be required at this time. No temporary work areas will be needed.

Attached is the application and monitoring fee in the amount of \$175.00.

3. Location of Existing Wells Within a 1-Mile Radius of the Proposed Location.  
(See Map #C).
  - a. Water wells – none.
  - b. Injection wells – none
  - c. Producing wells – none
  - d. Drilling wells – none
  - e. Shut-in wells – none
  - g. Disposal wells – none
  - h. Abandoned wells – one
  - i. Dry Holes
  
4. Location of Tank Batteries and Production Facilities.
  - a. All permanent structures (onsite for six months or longer) constructed or installed (including oil well pump jacks) will be painted Desert Tan (10YR6/3). All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded.
  - b. If storage facilities/tank batteries are constructed on this lease, the facility, battery or the well pad shall be surrounded by a containment dike of sufficient capacity to contain at a minimum, the entire content of the largest tank within the facility/battery. Unless more stringent protective requirements are deemed necessary by the authorized officer.
  - c. A Sundry Notice will be submitted showing placement of all production facilities prior to construction.

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SURFACE USE PLAN

- d. All loading lines will be placed inside the berm surrounding the tank battery.
- e. Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flow line will be buried or anchored down from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.
- f. The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil and Gas Order No. 4 for liquid hydrocarbons and Onshore Oil and Gas Order No. 5 for natural gas measurement.
- g. If at any time the facilities located on public land and authorized by the terms of the lease are no longer included in the lease (due to a contraction in the unit or other lease or unit boundary change), BLM will process a change in authorization to the appropriate statute. The authorization will be subject to appropriate rental or other financial obligation as determined by the authorized officer.
- h. Any necessary pits will be properly fenced to prevent any wildlife entry.
- i. All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.
- j. All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the District Manger.
- k. All access roads will be maintained as necessary to prevent erosion and accommodate year-round traffic.
- l. The road will be maintained in a safe useable condition.

5. Location and Type of Water Supply

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Antelope Creek #1  
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SURFACE USE PLAN

- a. All water needed for re-entry purposes will be obtained from Kenneth and Barbara Richens permit # 43-1721. Located in Sec. 34, T3S, R2W. A copy of the permit identifying the permit number and point of diversion is attached.
- b. Water will be hauled to location over the roads marked on Maps A and B.
- c. No water well is to be drilled on this lease.

6. Source of Construction Material

- a. Surface and subsoil materials in the immediate area will be utilized.
- b. Any gravel used will be obtained from a commercial source.
- c. The use of materials under BLM and USFS jurisdiction will conform with 43 CFR 3610.2.3, Construction material will not be located on lease.
- d. No construction materials will be removed from Federal land.

7. Methods of Handling Waste Disposal

- a. A 40' x 60' x 8' deep reserve pit will be constructed for this re-entry.
- b. Burning will not be allowed. All trash will be contained in a trash cage and its contents removed at the end of drilling operations and hauled to an approved disposal sight.
- c. After first production, produced wastewater will be confined to an unlined pit or storage tank for a period not to exceed ninety (90) days. During the 90-day period, in accordance with Onshore Order No. 7, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance.
- d. Drill cuttings are to be contained and buried in the flare pit.

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Lease No. UTU-77315

SURFACE USE PLAN

- e. Any salts and/or chemicals, which are an integral part of the drilling system, will be disposed of in the same manner as the drilling fluid.
- f. A chemical porta-toilet will be furnished with the drilling rig.
- g. The produced fluids will be produced into a test tank until such time as construction of production facilities is completed. Any spills of oil, gas, salt water or other produced fluids will be cleaned up and removed.

8. Ancillary Facilities

There are no airstrips, camps or other facilities planned during the drilling of the proposed well.

9. Well Site Layout

- a. The operator or his/her contractor shall contact the BLM Office at 435-789-1362 forty-eight (48) hours prior to construction activities.
- b. The flare pit will be located on the south east side of the location.
- c. The flare pit will be located downwind of the prevailing wind direction on the northwest side of location, a minimum of 100 feet from the well head.
- d. The stockpiled topsoil (first six inches) will be stored in a windrow fashion on the southwest side of the location between points 3 & C.
- e. Access to the well pad will be from the west between points 2 and 3.
- f. See Location Layout for orientation of rig, cross section of drill pad and cuts and fills.
- g. The location of mud tanks; flare pit, trash cage; pipe racks and soil stockpiles will be shown on the Location Layout.
- h. During construction, all brush will be removed from the well pad and access road and stockpiled separately from the topsoil.

Medallion Exploration  
Antelope Creek #1  
548' FNL and 519' FEL  
NE/ NE Sec. 24, T6S - R4W

Lease No. UTU-77315

SURFACE USE PLAN

- i. All pits will be fence according to the following minimum standards:
  1. 39 inch net wire shall be used with at least one strand or barbed wire on top of the net wire (barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence).
  2. The net wire shall be no more than 2-inches above the ground. The barbed wire shall be 3-inches above the net wire. Total height of the fence shall be at least 42-inches.
  3. Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
  4. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16 feet.
  5. All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.
- j. The reserve pit fencing will be on three sides during drilling operations and on the fourth side when the rig moves off the location. Pits will be fenced and maintained until cleanup.

10. Plans for Restoration of Surface

Producing Location

- a. Immediately upon well completion the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash and junk not required for production.
- b. Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with 43 CFR 3162.7-1.
- c. Reclamation of unused disturbed areas on the well pad/access road no longer needed for operations, such as cut slopes, and fill areas will be accomplished by grading, leveling and seeding as recommended by the Authorized Officer.
- d. The seed mixture for reclamation work will be a sight specific mixture as recommended by the authorized officer of the USFS at the time of reclamation. Seeding will be performed in the fall after September 15 or until permanent

Medallion Exploration  
Antelope Creek #1  
548' FNL and 519' FEL  
NE/ NE Sec. 24, T6S - R4W

Lease No. UTU-77315

SURFACE USE PLAN

ground freeze. Any other seeding period will require the approval of the authorized officer of the USFS.

Dry Hole

- a. At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment the BLM and or USFS will attach the appropriate surface rehabilitation conditions of approval.

11. Surface Ownership

Access Roads – All roads are County maintained or managed by the USFS.

Well pad – The well pad is located on lands managed by the USFS.

12. Other Information

- a. A Class III archeological survey was not deemed necessary. This well was previously drilled in 1952.
- b. The operator is responsible for informing all persons in the areas who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archeological sites, or for collecting artifacts. If historic or archeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and contact the authorized officer (AO). Within five working days the AO will inform the Operator as to:
  - whether the materials appear eligible for the National Register of Historic Places;
  - the mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and
  - at a time frame for the AO to complete and expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate. If the operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that required mitigation has been completed, the operator will then be allowed to resume construction.

Medallion Exploration  
Antelope Creek #1  
548' FNL and 519' FEL  
NE/ NE Sec. 24, T6S - R4W

Lease No. UTU-77315

SURFACE USE PLAN

- c. The operator will control noxious weeds along rights-of-way for roads, pipelines, well sites, or other applicable facilities. A list of noxious weeds may be obtained from the USFS, or the appropriate County Extension Office. On BLM administered land it is required that a Pesticide Use Proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or possible hazardous chemicals.
- d. Drilling rig and/or equipment used during drilling operations on this well site will not be stacked or stored on Federal Lands after the conclusion of drilling operations or at any other time without USFS authorization. However, if USFS authorization is obtained, it is only a temporary measure.
- e. No erosion control structures will be required by the USFS.
- f. All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved plan of operations, and any applicable Notice to Lessees. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.
- g. A complete copy of the approved APD shall be on location during construction of the location and drilling activities.
- h. There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended or abandoned will be identified in accordance with 43 CFR 3162.
- i. "Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.
- j. This permit will be valid for a period of one year from the date of approval. An extension period may be granted, if requested, prior to the expirations of the original approval period. After permit termination, a new application will be filed for approval for any future operations.
- k. The operator or his contractor shall contact the BLM Offices at 435-789-1362 and the USFS at 435-789-1181 48 hours prior to construction activities.

Medallion Exploration  
Antelope Creek #1  
548' FNL and 519' FEL  
NE/ NE Sec. 24, T6S - R4W

Lease No. UTU-77315

SURFACE USE PLAN

- l. The BLM. and USFS. Office shall be notified upon site completion prior to moving on the drilling rig.
  
- m. In the event after-hours approvals are necessary, please contact one of the following individuals:

Gerald E. Keneska	Petroleum Engineer	435-781-1190
Ed Forsman	Petroleum Engineer	435-789-7077
BLM Fax Machine		435-789-3634

Medallion Exploration  
 Antelope Creek #1  
 548' FNL and 519' FEL  
 NE/ NE Sec. 24, T6S - R4W

Lease No. UTU-77315

SURFACE USE PLAN

13. Lessee's or Operator's Representative and Certification

Permit Matters

Medallion Exploration  
 P.O. Box 1328  
 Roosevelt, Utah, 84066  
 435-722-4600 (O) Steve Lamb  
 435-646-3441 (H)  
 435-722-7500 (M)

Drilling & Completion Matters

MEDALLION EXPLORATION  
 P.O. Box 1328  
 Roosevelt, Utah 84066  
 435/722-4600 (O) Steve Lamb  
 435/646/3441 (H)  
 435/722-7500 (M)

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 presently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Medallion Exploration and its contractors and sub contractors in conformity with the plan and the terms and conditions under which it is approved.

This statement is subject to the provisions of 18.U.S.C. 100 for the filing of a false statement.

August 6, 1998

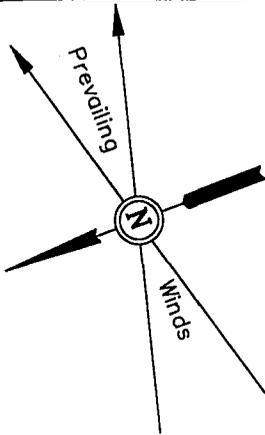


Steven b. Lamb  
 Field Supt.  
 Medallion Exploration.

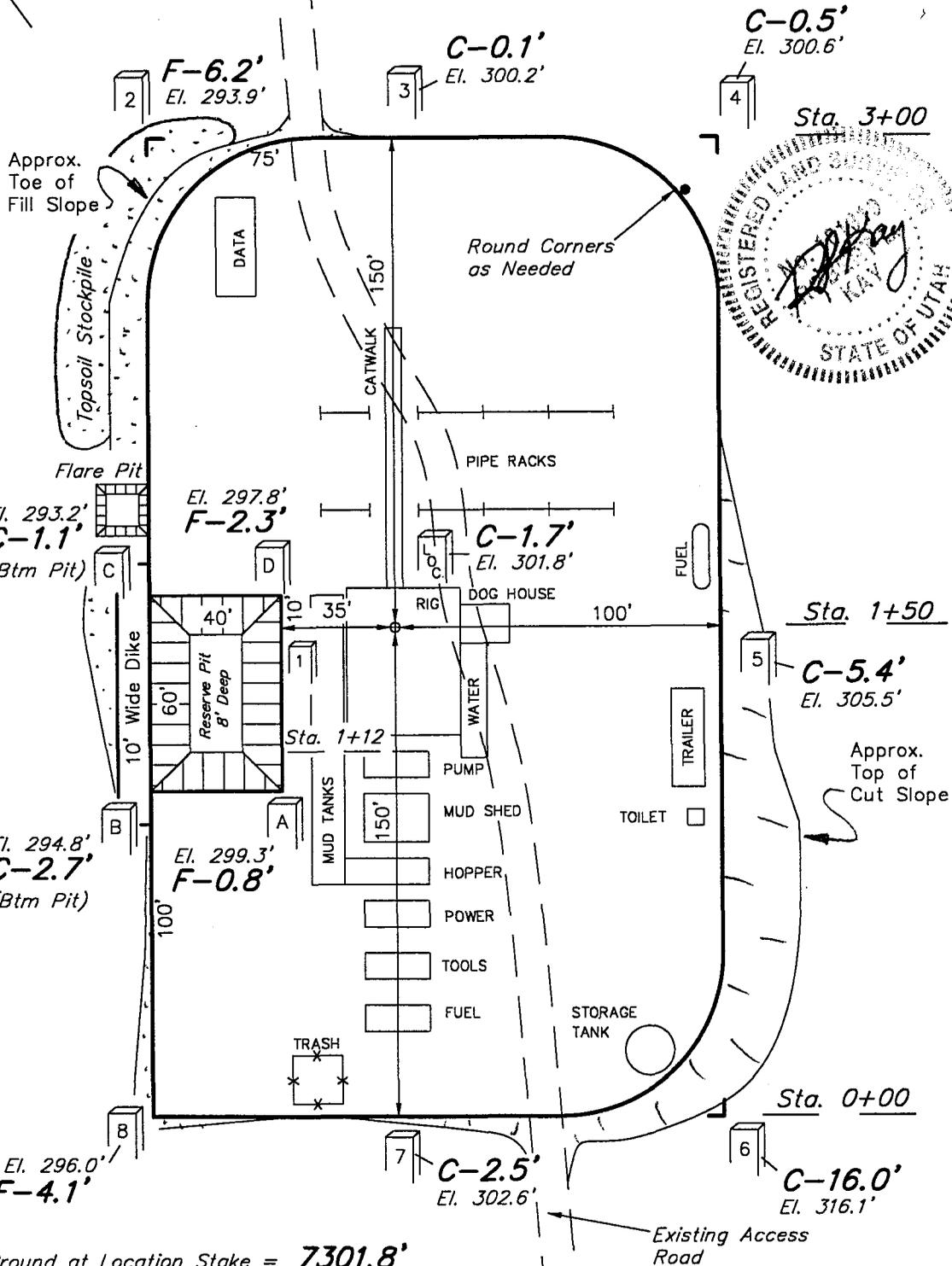
# MEDALLION EXPLORATION

## LOCATION LAYOUT FOR

ANTELOPE CREEK #1  
SECTION 24, T6S, R4W, U.S.B.&M.  
548' FNL 519' FWL



SCALE: 1" = 50'  
DATE: 7-31-98  
Drawn By: C.B.T.



Pit Capacity With 2' of Freeboard is ±1,230 Bbls.

Elev. Ungraded Ground at Location Stake = 7301.8'

Elev. Graded Ground at Location Stake = 7300.1'

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

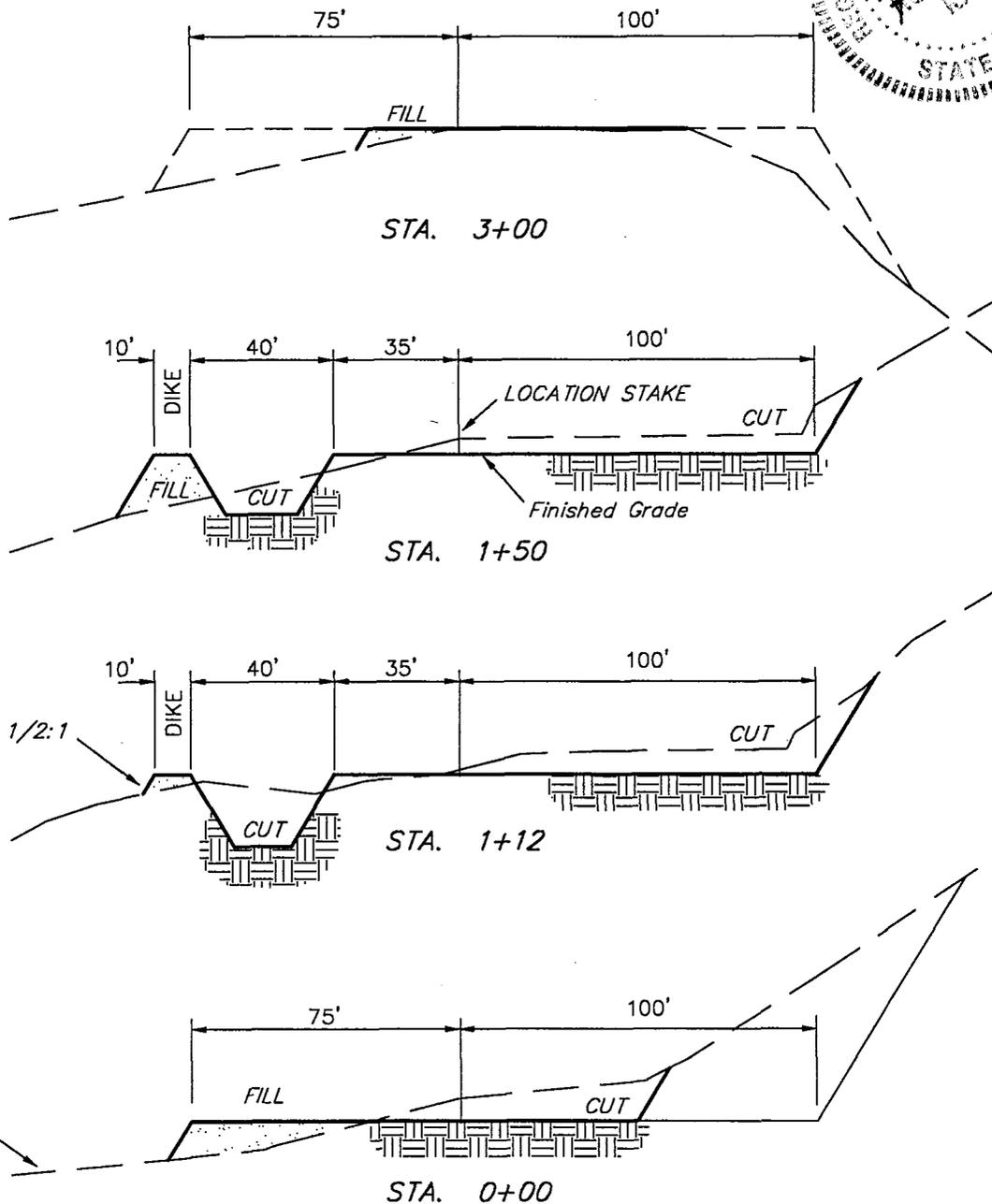
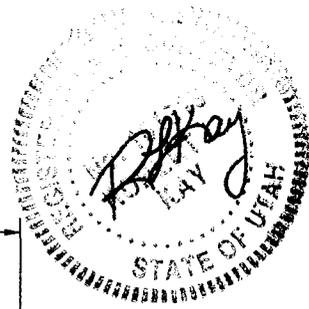
# MEDALLION EXPLORATION

## TYPICAL CROSS SECTIONS FOR

ANTELOPE CREEK #1  
SECTION 24, T6S, R4W, U.S.B.&M.  
548' FNL 519' FWL

1" = 20'  
X-Section  
Scale  
1" = 50'

DATE: 7-31-98  
Drawn By: C.B.T.

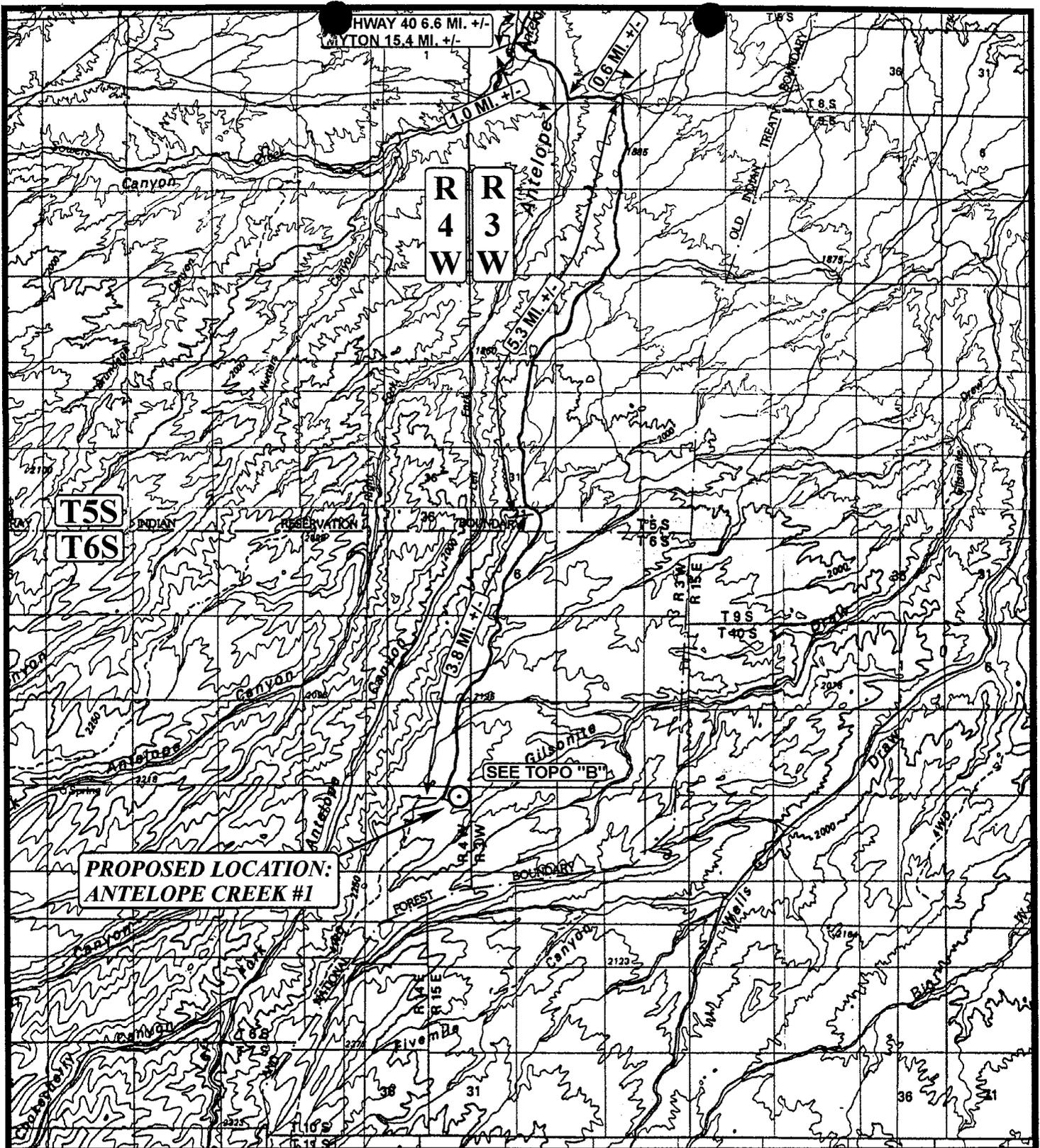


### APPROXIMATE YARDAGES

(6") Topsoil Stripping	=	970 Cu. Yds.
Remaining Location	=	2,870 Cu. Yds.
<b>TOTAL CUT</b>	<b>=</b>	<b>3,840 CU.YDS.</b>
<b>FILL</b>	<b>=</b>	<b>2,530 CU.YDS.</b>

EXCESS MATERIAL AFTER 5% COMPACTION	=	1,180 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Volume)	=	1,180 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	=	0 Cu. Yds.

**UINTAH ENGINEERING & LAND SURVEYING**  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017



**PROPOSED LOCATION:  
ANTELOPE CREEK #1**

(SEE TOPO "B")

**LEGEND:**

⊙ PROPOSED LOCATION



**MEDALLION EXPLORATION**

**ANTELOPE CREEK #1  
SECTION 24, T6S, R4W, U.S.B.&M.  
548' FNL 519' FEL**



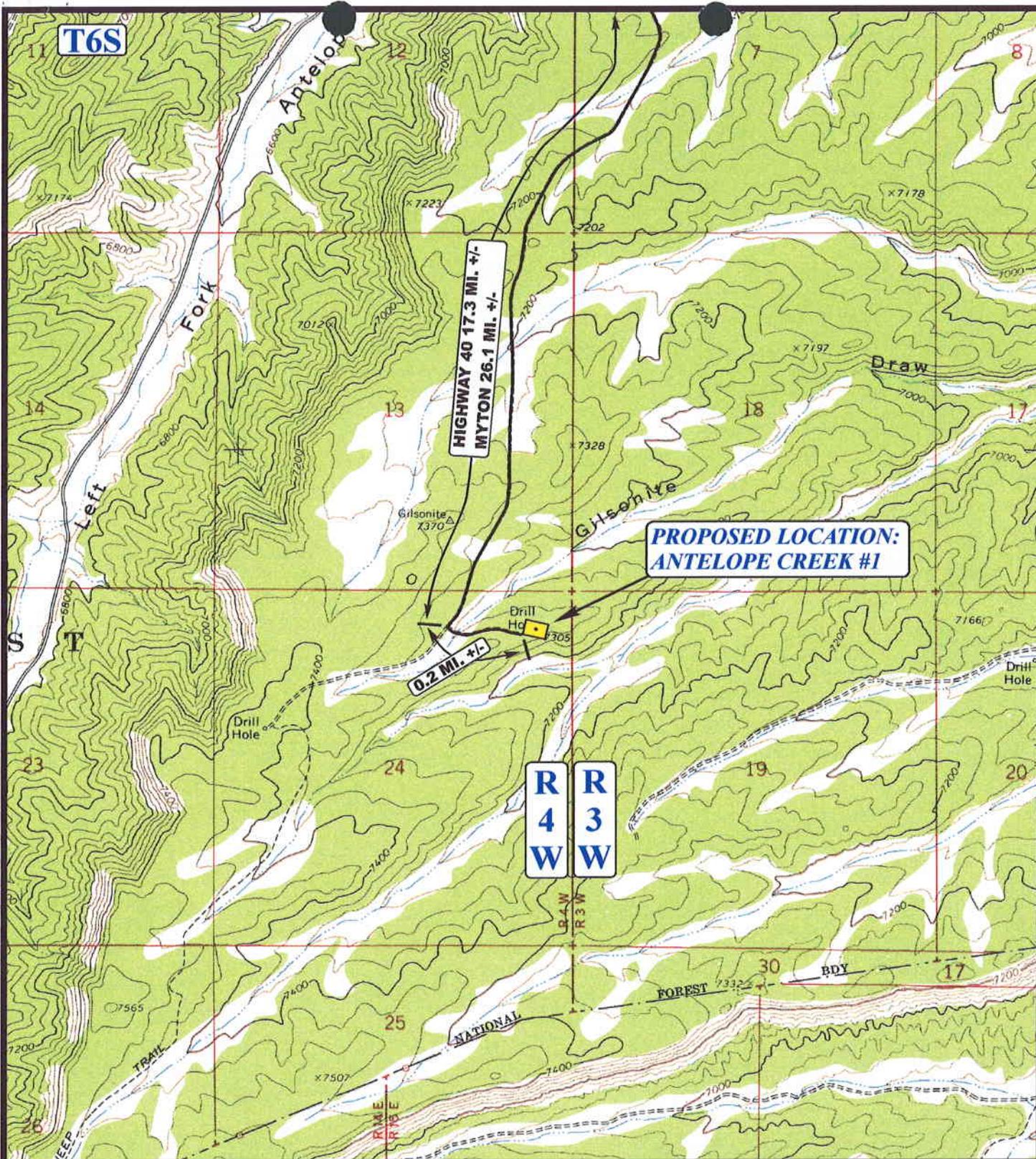
**Utah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC  
MAP**

**7 7 98**  
MONTH DAY YEAR

SCALE: 1: 100,000 DRAWN BY: C.B.T. REVISED: 00-00-00





**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING ROAD



**MEDALLION EXPLORATION**

**ANTELOPE CREEK #1**  
**SECTION 24, T6S, R4W, U.S.B.&M.**  
**548' FNL 519' FEL**



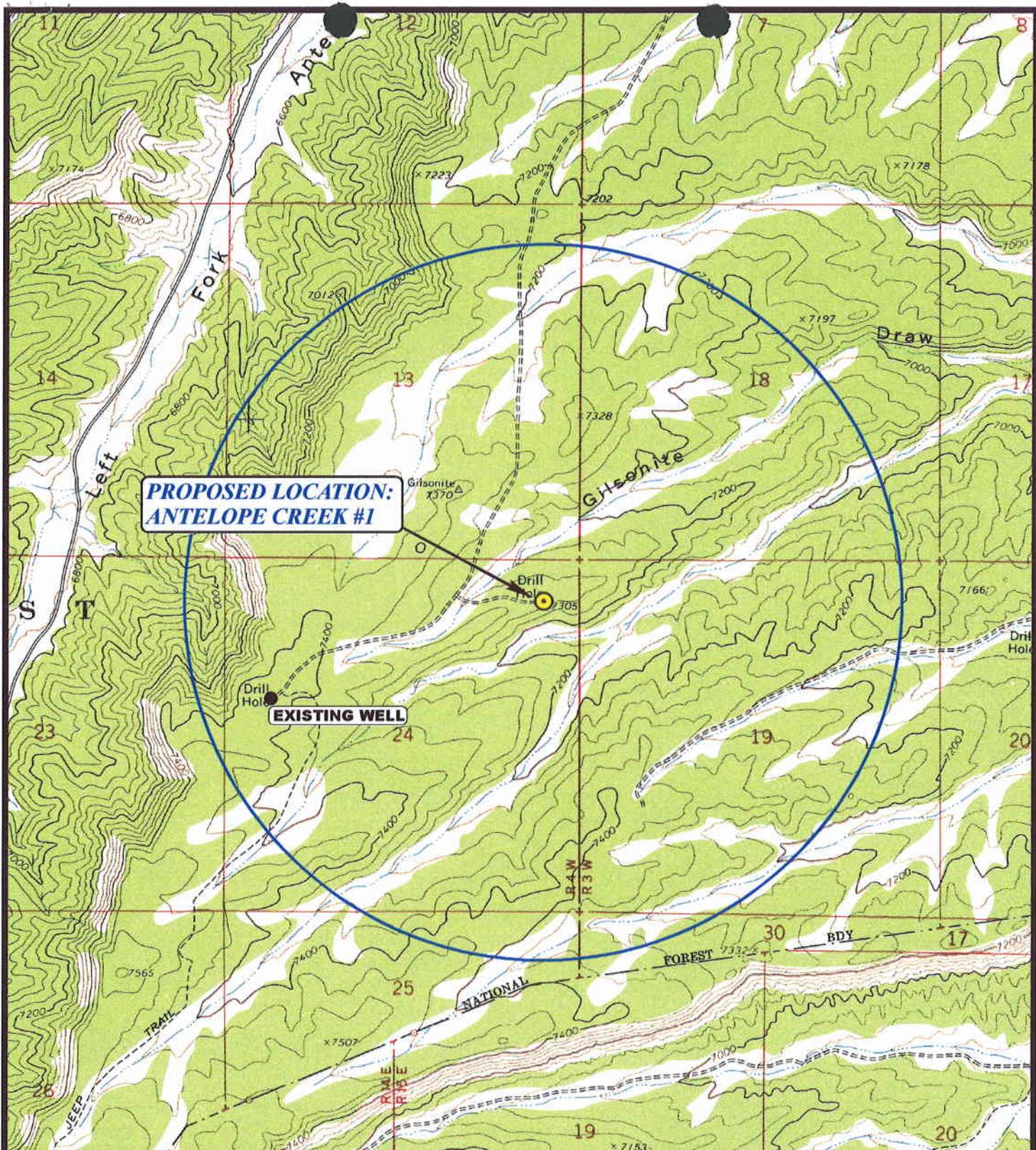
**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC**  
**MAP**

<b>7</b>	<b>7</b>	<b>98</b>
MONTH	DAY	YEAR



SCALE: 1" = 2000' DRAWN BY: C.B.T. REVISED: 00-00-00



**LEGEND:**

- ⊗ DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- ⊗ WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

**MEDALLION EXPLORATION**

**ANTELOPE CREEK #1**  
**SECTION 24, T6S, R4W, U.S.B.&M.**  
**548' FNL 519' FEL**

**UES**  
**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



**TOPOGRAPHIC** **7 7 98**  
**MAP** MONTH DAY YEAR  
 SCALE: 1" = 2000' DRAWN BY: C.B.T. REVISED: 00-00-00 **C**  
 TOPO





# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter  
Governor

Dee C. Hansen  
Executive Director

Dianne R. Nielson, Ph.D.  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340

December 5, 1991

MEMO TO FILE

FROM:

Vicky Carney *VC*

RE:

Antelope Creek Unit #1, API # 43 013 10173,  
SEC 24 T06S R04W NENE

0600 FNL 0500 FEL footages approximate from aerial photos

Antelope Creek Unit #2, API # 43 013 10174,  
SEC 30 T10S R15E C-NE

1100 FNL 1375 FEL footages approximate from aerial photos

Per Mike Hebertson, DOGM Inspector

FORM J160-J  
(November 1983)  
(formerly 9-333(C))

SUBMIT IN TRIPLICATE  
(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

1b. TYPE OF WELL  
OIL WELL  GAS WELL  OTHER   
SINGLE ZONE  MULTIPLE ZONE

2. NAME OF OPERATOR  
Medallion Exploration

3. ADDRESS OF OPERATOR  
P.O. Box 1328 Roosevelt, Utah 84066 435-722-4600

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
At Surface NEENK, 548' ENL & 519' EWL, SEC. 24  
At proposed Prod. Zone

5. LEASE DESIGNATION AND SERIAL NO.  
UTU-77315  
6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
7. UNIT AGREEMENT NAME  
8. FARM OR LEASE NAME  
ANTelope CREEK #1  
9. WELL NO.  
#1  
10. FIELD AND POOL OR WILDCAT  
WILDCAT  
11. SEC., T., R., M., or BLM  
AND SURVEY OR AREA  
SEC. 24, T6S, R4W

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE  
22 MILES SOUTHEAST OF MYTON, UTAH

12. COUNTY OR PARISH  
DUCHESSNE  
13. STATE  
UTAH

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR FASE LINE, FT. (Also to nearest dog, unit line, if any)  
819'

16. NO. OF ACRES IN LEASE  
2,222.74

17. NO. OF ACRES ASSIGNED TO THIS WELL  
320

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT.  
6100'

19. PROPOSED DEPTH  
7350'

20. ROTARY OR CABLE TOOLS  
ROTARY

21. ELEVATIONS (Show whether OF, HT, OR, etc.)

22. APPROX. DATE WORK WILL START  
UPON APPROVAL

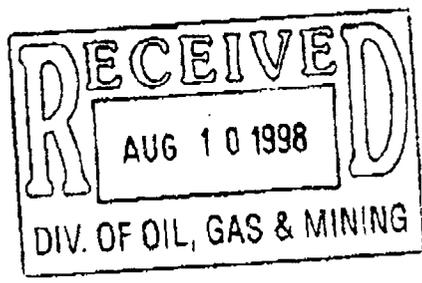
23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMENT
13 3/8"	10 3/4"	40.5	489'	
9 7/8"	7"	25#	5204'	242 SKS was pumped Aug 1952
6 1/8"	4 1/2" Liner	11.6#	5,000' to 7,350'	332 sks G w/10% gypsum, 10% salt .4 % FL-52. Accurate amounts from log.

Medallion Exploration proposes to clean out P&A plugs to 5204' in 7" casing. Test 7" casing to 2500 psi. Drill to a depth of 7300' (estimate) and test the Chapita B formation. If well is productive when a 4 1/2" liner will be run and cemented. If well is not a producer then the Chapita formation will be plugged back as per BLM requirements at which time Medallion Exploration will propose to perforate and test the Greenriver formation. If the well is not completed has a producer in the Greenriver formation it we be P&A has per USFS & BLM recommendations.

All operations will be covered under Medallion Explorations federal bond # UT-1066.

This APD is also request for Right-of-way

- C: 3- BLM, Vernal
- C: 2- USFS, Vernal
- C: 2- Utah Div. Of Oil, Gas, and Mining



561791.3  
LH7233H.0

ABOVE SPACE DESCRIBE PROPOSED DRILLING PROGRAM. If proposal is to deepen or plug back, give date 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.

14. SIGNED Arthur Clark TITLE FIELD SUPERINTENDENT (DATE) 6-Aug 98

(THIS SPACE FOR FEDERAL OR STATE OFFICE USE.)  
**Federal Approval of this Action is Necessary**  
PERMIT NO. 43-013-10173 APPROVAL DATE  
APPROVED BY Bradley G. Hill TITLE BRADLEY G. HILL  
RECLAMATION SPECIALIST-III DATE 8/20/98

43 USC Section 1601, 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.

**DECISION MEMO**

**Medallion Exploration  
Oil and Gas Exploration**

Ashley National Forest  
Duchesne Ranger District  
Duchesne County, Utah

I have decided to authorize a proposal from Medallion Exploration of Roosevelt, UT for oil and gas exploration on the Ashley National Forest. The proposal is to re-enter and test three existing oil and gas wells as follows:

- Antelope Creek #1 - NENE, Section 24, T6S, R4E, USM
- Left Fork Antelope #1 - NESW, Section 23, T6S, R4E, USM
- Alkali Canyon Federal #1 - SENE, Section 31, T6S, R4E, USM.

The proposed activity will include leveling the existing well pad by scraping existing vegetation and stockpiling topsoil. A drill rig will be located over the existing well to drill out the well plugs, perforate the well casing and test several zones for oil and gas production. The well pads will include mud pump and tanks, flare pit, pipe racks, trailer, toilet, storage tank, and trash bin.

If the wells are not completed as producers they will be plugged, all equipment will be removed, the sites will be reshaped, topsoil will be spread and the sites revegetated.

If the wells are completed as producers a sundry notice will be submitted showing where surface equipment will be set for long term production. Existing roads may need to be widened and 4 inch pipelines would be installed next to the roadway. At that time additional cultural resource and TES wildlife surveys will be required and additional mitigation measures will be applied as necessary.

The Western Uinta Basin Oil and Gas Leasing EIS was completed in 1997 disclosing the effects of oil and gas activities in this area. The Record of Decision determined which lands within the analysis area would be available for oil and gas leasing and what stipulations would be attached to the leases. That decision requires that an additional site specific analysis be completed when activities are proposed.

Medallion Exploration has since acquired leases for the areas they propose to drill. The site specific analysis has determined that the sites proposed for drilling have previously been disturbed during drilling activities. Minimal additional surface disturbance will occur. It has also been determined that no cultural resources or T&E plants or animals will be affected.

Project scoping included letters mailed to interested and affected individuals and groups, and a news release in the Uintah Basin Standard. One comment was received. That comment was in favor of re-entering the existing wells instead of drilling new wells.

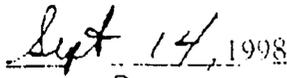
This proposed action is consistent with the management direction and guidelines as specified in the Ashley National Forest Plan of 1986 as amended by the Western Uinta Basin Oil and Gas Leasing EIS of 1997.

No significant issues within the scope of this proposal or extraordinary circumstances were identified during the scoping process. Therefore, this action falls within Category 8 [Short term mineral, energy, or geophysical investigations and their incidental support activities that may require....construction of less than one mile of low standard road, or use and minor repair of existing road, (FSH 1909.15, Section 31.2)] and is categorically excluded from documentation in an environmental impact statement or an environmental assessment.

This decision may be implemented immediately. This decision is not is not subject to appeal pursuant to 36 CFR Part 215.8 (a) (4).

For further information concerning this decision, please contact Joe Bistryski at the Roosevelt/Duchesne Ranger District, P.O. Box 981, Duchesne UT 84021 or phone (435) 738-2482.

  
JOE BISTRYSKI  
District Ranger

  
Date



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

Michael O. Leavitt  
Governor  
Ted Stewart  
Executive Director  
Lowell P. Braxton  
Division Director

1594 West North Temple, Suite 1210  
PO Box 145801  
Salt Lake City, Utah 84114-5801  
801-538-5340  
801-369-3940 (Fax)  
801-538-7223 (TDD)

August 20, 1998

Medallion Exploration  
P.O. 1328  
Roosevelt, Utah 84066

Re: Antelope Creek #1 Well, 548' FNL, 519' FWL, NE NE, Sec. 24,  
T. 6 S., R. 4 W., Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R549-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-10173.

Sincerely,

A handwritten signature in cursive script that reads "John R. Baza".

John R. Baza  
Associate Director

lwp

Enclosures

cc: Duchesne County Assessor  
Bureau of Land Management, Vernal District Office

Operator: Medallion Exploration  
Well Name & Number: Antelope Creek #1  
API Number: 43-013-10173  
Lease: UTU-77315  
Location: NE NE Sec. 24 T. 6 S. R. 4 W.

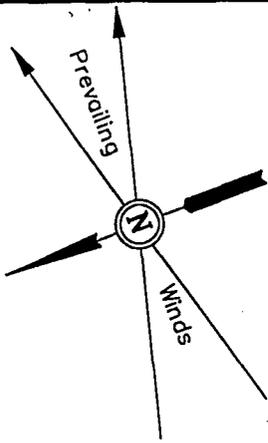
### Conditions of Approval

1. General  
Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.
2. Notification Requirements  
Notify the Division within 24 hours prior to spudding the well. Contact Jim Thompson at (801) 538-5336.  
  
Notify the Division prior to commencing operations to plug and abandon the well. Contact Dan Jarvis at (801) 538-5338 or Robert Krueger at (801) 538-5274.
3. Reporting Requirements  
All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.
4. State approval of this well does not supersede the required federal approval which must be obtained prior to drilling.

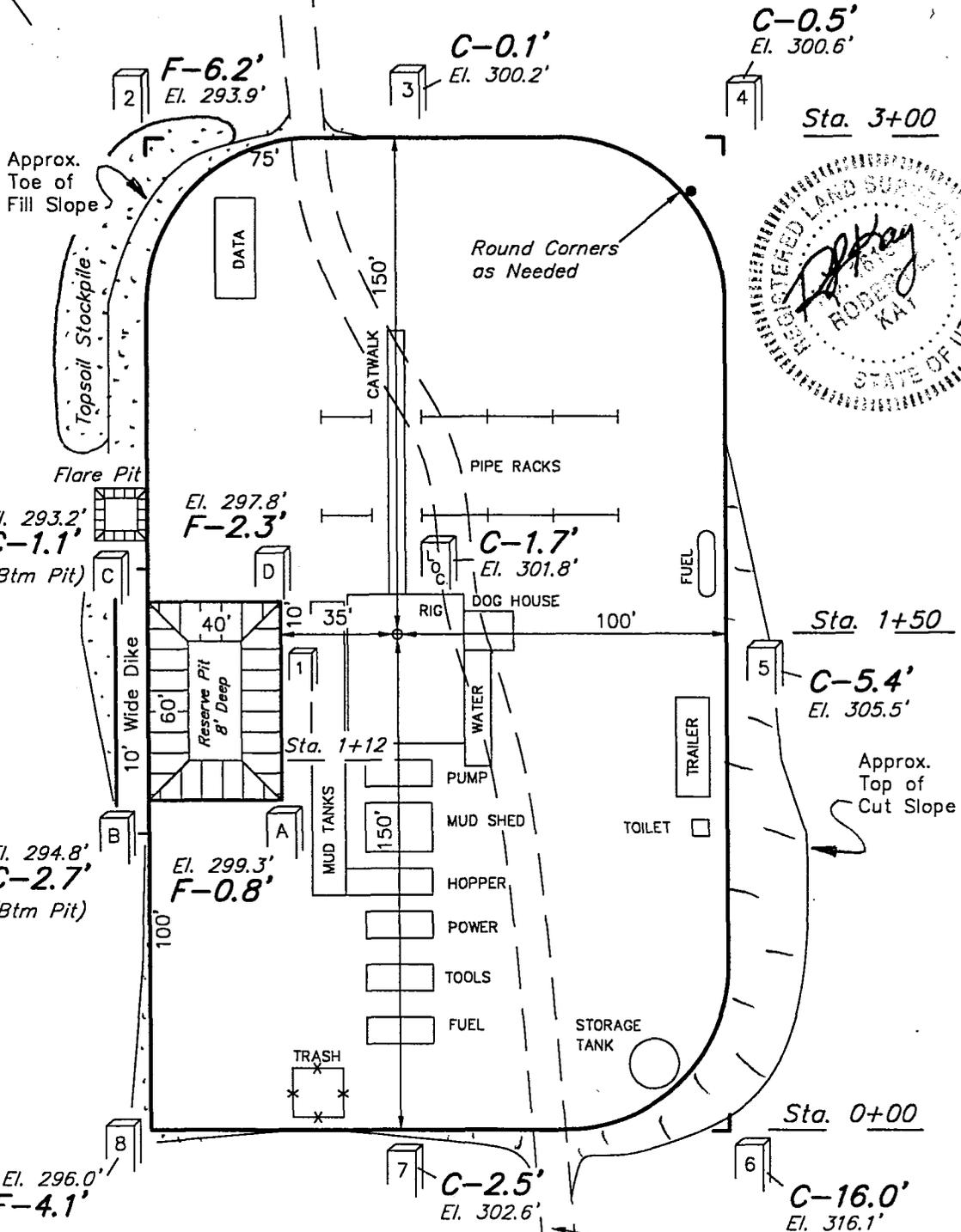
# MEDALLION EXPLORATION

## LOCATION LAYOUT FOR

ANTELOPE CREEK #1  
SECTION 24, T6S, R4W, U.S.B.&M.  
548' FNL 519' FWL



SCALE: 1" = 50'  
DATE: 7-31-98  
Drawn By: C.B.T.



Pit Capacity With  
2' of Freeboard  
is ±1,230 Bbls.

Elev. Ungraded Ground at Location Stake = 7301.8'

Elev. Graded Ground at Location Stake = 7300.1'

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017

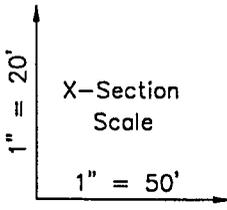
# MEDALLION EXPLORATION

## TYPICAL CROSS SECTIONS FOR

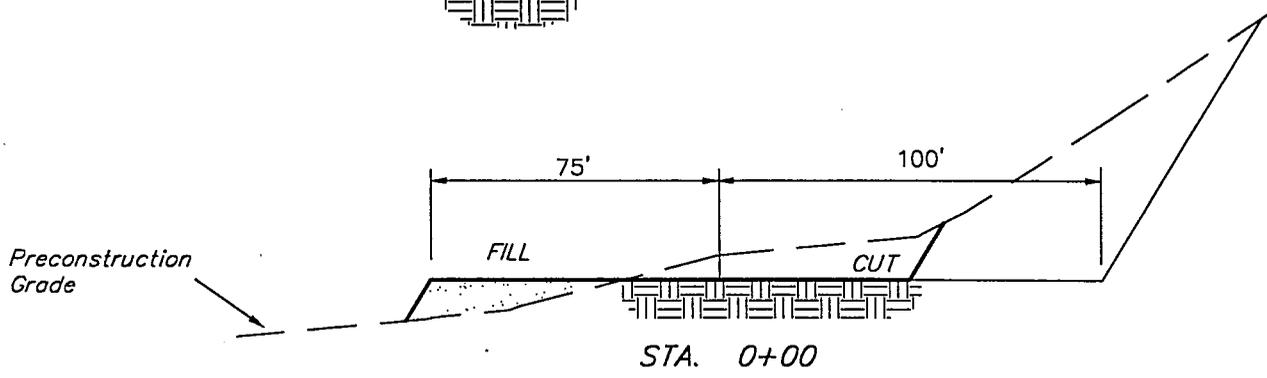
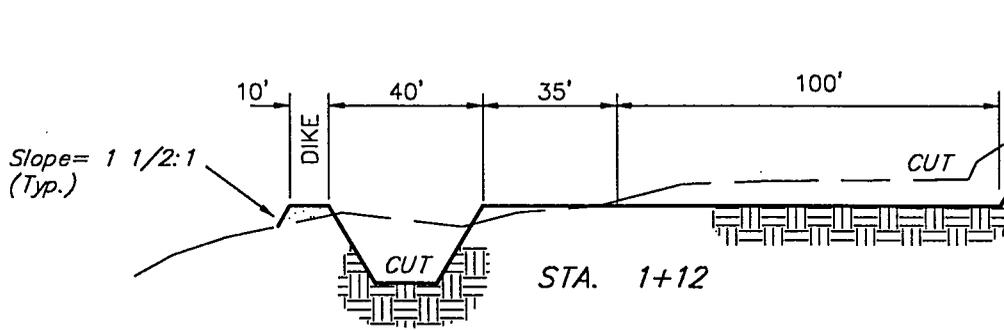
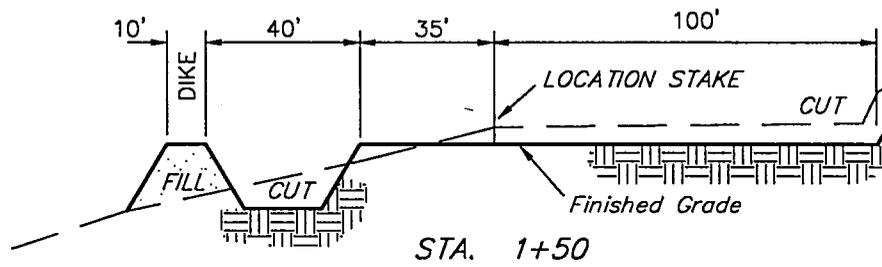
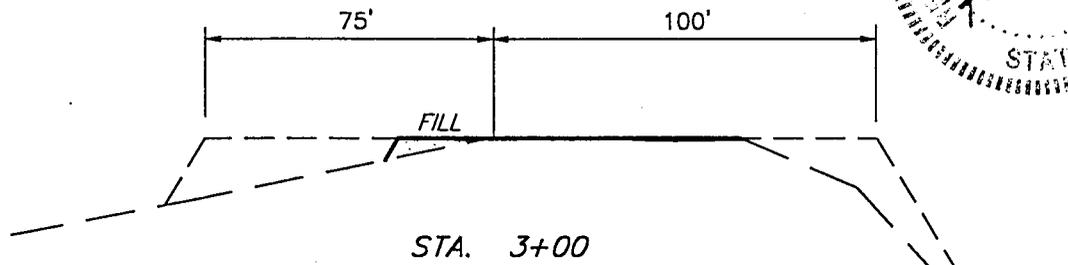
ANTELOPE CREEK #1

SECTION 24, T6S, R4W, U.S.B.&M.

548' FNL 519' FWL



DATE: 7-31-98  
Drawn By: C.B.T.



### APPROXIMATE YARDAGES

(6") Topsoil Stripping	=	970 Cu. Yds.
Remaining Location	=	2,870 Cu. Yds.
<b>TOTAL CUT</b>	=	<b>3,840 CU.YDS.</b>
<b>FILL</b>	=	<b>2,530 CU.YDS.</b>

EXCESS MATERIAL AFTER 5% COMPACTION	=	1,180 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Volume)	=	1,180 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	=	0 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

**ONSHORE ORDER NO**  
**MEDALLION EXPLORATION, INC.**  
Antelope Creek No. 1 Lease No. UTU-77315  
 548' FNL and 519' FEL  
 NE/ NE Sec 24, T6S - R4W  
 Duchense County, Utah

**DRILLING PROGRAM**

**ONSHORE OIL & GAS ORDER NO. 1**  
**Approval of Operations on Onshore**  
**Federal and Indian Oil and Gas Leases**

All Lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Order No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

1. **Estimated Tops of Important Geologic Markers:**

<u>Formation</u>	<u>Depth</u>	<u>Subsea</u>
Green River	Surface	
Wasatch	5718'	+1584'
Chapita B	7274'	+28'
T.D.	7350'	-348

2. **Estimated Depths of Anticipated Water, Oil, Gas or Minerals Formation**

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
Gas & Oil	Greenriver	4950'
Gas	Chapita B	4730'

All fresh water prospectively valuable minerals encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

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**DRILLING PROGRAM**

3. **Pressure Control Equipment: ( Schematic Attached)**

Medallion Exploration minimum specifications for pressure control equipment are as follows:

Ram Type: 7 1/16" Hydraulic double , 5000 psi w.p. Over Rig only.  
Ram Type: 10" Hydraulic double , 3000 psi w.p. Drilling Rig only.

Ram type preventors and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 70 percent of internal yield pressure of casing. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer. If a test plug is utilized, no bleed-off pressure is acceptable. For a test not utilizing a test plug, if a decline in pressure of more than 10 percent in 30 minutes occurs, the test shall be considered to have failed. Valve on casing head below test plug shall be open during test of BOP stack.

Annular type preventers if used for this re-entry shall be tested to 50% of rated working pressure. Pressure shall be maintained at least 10 minutes or until provisions of test are met., whichever is longer.

As a minimum, a test shall be performed:

- a. when initially installed;
- b. whenever any seal subject to test pressure is broken
- c. following related repairs; and
- d. at 30-day intervals

Valves shall be tested from working pressure side during BOPE tests with all down stream valves open.

Pipe and blind rams shall be activated each trip, however, this function need not be performed more than once a day.

Pressure tests shall apply to all related well control equipment.

All of the above described tests and/or drills shall be recorded in the drilling log.

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**DRILLING PROGRAM**

Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection will be recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs.

- a. The size and rating of the BOP stack as shown on a diagram, most of the equipment for this depth of hole in the area use a 3000 psi working pressure blowout preventor.
- b. The accumulator system shall have a pressure capacity to provide for repeated operations of hydraulic preventers.
- c. Drill string safety valve(s), to fit all tools in the drill string, are to be maintained on the rig floor while drilling operations are in progress.

4. **proposed Casing and Cementing Program:**

- a. All indications of usable water shall be reported.
- b. All indications of usable water shall be reported to the authorized officer prior to running the next string of casing or before plugging orders are requested, whichever occurs first.
- c. All casing strings below the conductor shall be pressure tested to 0.22 psi per foot of casing string length or 1500 psi, whichever is greater, but not exceed 70 percent of the minimum internal yield. If pressure declines more than 1- percent in 30 minutes, corrective action shall be taken.
- d. The casing in the well was run as follows:

<u>Purpose</u>	<u>Depth</u>	<u>Hole Size</u>	<u>O.D.</u>	<u>Weight</u>	<u>Grade</u>	<u>Type</u>	<u>NEW Cr Used</u>
Surface	0-489'	13-3/8"	10 3/4"	40.5#	J-55	ST&C	New
Intermediate	0-5204'	9 7/8"	7"	26#	N-80	LT&C	New
Liner will be run after well as been deepened.							
Produc.	5000'-7350'	6-1/8"	4-1/2"	11.6#	N-80	LT&C	New*

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**Duchense County, Utah**

**DRILLING PROGRAM**

e. The cement program was pumped as follows:

**Surface**  
0-489'

**Type and Amount**  
? It was reported that cement was circulated to surface.

**Intermediate**  
0-5204

**Type and Amount**  
242 sks. Cement was pumped August 1952.

**Production**  
5000' - 7350'

**Type and Amount**  
332 sksG w/10% gypsum, 10% salt, .4% FL-52.  
Actual amounts will be taken from logs.

f. The following reports shall be filed with the District Manager within 30 days after the work is completed.

1. Progress reports, Form 3160-5 (formerly 9-331) "Sundry Notices and Reports on Wells", must include complete information concerning:

a. Weekly progress report. Show the spud date on the first reports submitted.

g. Auxiliary equipment to be used is as follows:

1. Kelly cock

2. No bit float is deemed necessary.

3. A sub with a full opening valve.

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 Duchense County, Utah

**DRILLING PROGRAM**

5. **Mud Program:**

- a. The proposed circulating mediums to be employed in drilling are as follows:

<u>Interval</u>	<u>Mud Type</u>	<u>Mud Wt.</u>	<u>Visc.</u>	<u>F/L</u>	<u>PH</u>
0-5204'	3% KCL	8.4-8.6	N/C	NC	N/C
5204' - 7350'	LSND	8.6-9.4	36-38	10-15cc	9.0

Sufficient quantities of mud materials will be maintained or readily accessible for the purpose of assuring well control during the course of drilling operations.

- b. Mud monitoring equipment to be used is as follows:
1. Periodic checks will be made each tour of the mud system. The mud level will be checked visually.
- c. No chromate additives will be used in the mud system on Federal and/or Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.
- d. No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.
- e. The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

6. **Evaluation Program:**

The anticipated type and amount of testing, logging and coring are as follows:

- a. No drill stem tests are anticipated, however, if they are run the following will be adhered to:

Initial opening of drill stem test tools shall be restricted to daylight hours unless specific approval to start during other hours is obtained from the authorized officer. However, DST's may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate

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**DRILLING PROGRAM**

lighting is available (i.e. lighting which is adequate for visibility and vapor-proof for safe operations). Packers can be released, but tripping shall not begin before daylight, unless prior approval is obtained from the authorized officer. Closed chamber DST's may be accomplished day or night.

A DST that flows to the surface with evidence of hydrocarbons shall be either reversed out of the testing string under controlled surface conditions. This would involve provided some means for reverse circulation.

Separation equipment required for the anticipated recovery shall be properly installed before a test starts.

All engines within 100 feet of the wellbore that are required to "run" during the test shall have spark arresters or water cooled exhausts.

- b. The logging program consisted of a DIL-GR from T.D. to base of surface casing with the GR to surface. A CNL-FDC and FMI will be run from T.D. to 1000' (minimum run). A DSI-GR will be run for T.D. to base of surface casing.
- c. No cores will be taken.
- d. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the authorized officer (AO).
- e. The anticipated completion program is as follows:
  - The Castlegate, Mesa Verde and the Wasatch formations will be perforated, tested and sand fraced if necessary in sequence until a paying zone has been establish.
- f. Daily drilling and completion progress reports shall be submitted to the BLM in Vernal on a weekly basis.

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**DRILLING PROGRAM**

7. **Abnormal Temperatures of Pressures**
  - a. No abnormal temperatures or pressures are anticipated. No H<sub>2</sub>S has been encountered in or known to exist from previous wells drilled to similar depths in the general area.
  - b. The maximum anticipated bottom hole pressure will be approximately 1950 psi at T.D.
  
8. **Anticipated Starting Dates and Notification of Operations:**
  - a. Drilling will commence immediately upon approval of this application and or upon the availability of a rig.
  - b. It is anticipated that the re-entry of this well will take approximately 5 days.
  - c. The Vernal District Office shall be notified, during regular work hours (7:45 a.m. - 4:30 p.m., Monday through Friday except holidays), at least 24 hours prior to spudding the well.
  - d. Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.
  - e. The date on which productions is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

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**DRILLING PROGRAM**

- f. Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operation may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.
- g. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the A.O. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.
- h. The spud date will be reported orally to the AO within 48 hours after spudding. If the spudding occurs on a weekend or holiday, the report will be submitted on the following regular work day. The oral report will be followed up with a Sundry Notice.
- i. In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 3160-6 "Monthly Report of Operations", starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report will be filed with the Vernal BLM District Office, 170 South 500 East, Vernal, UT 84078.
- j. Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.
- k. If a replacement rig is contemplated for completion operations, a "Sundry Notice" Form 3160-5 to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

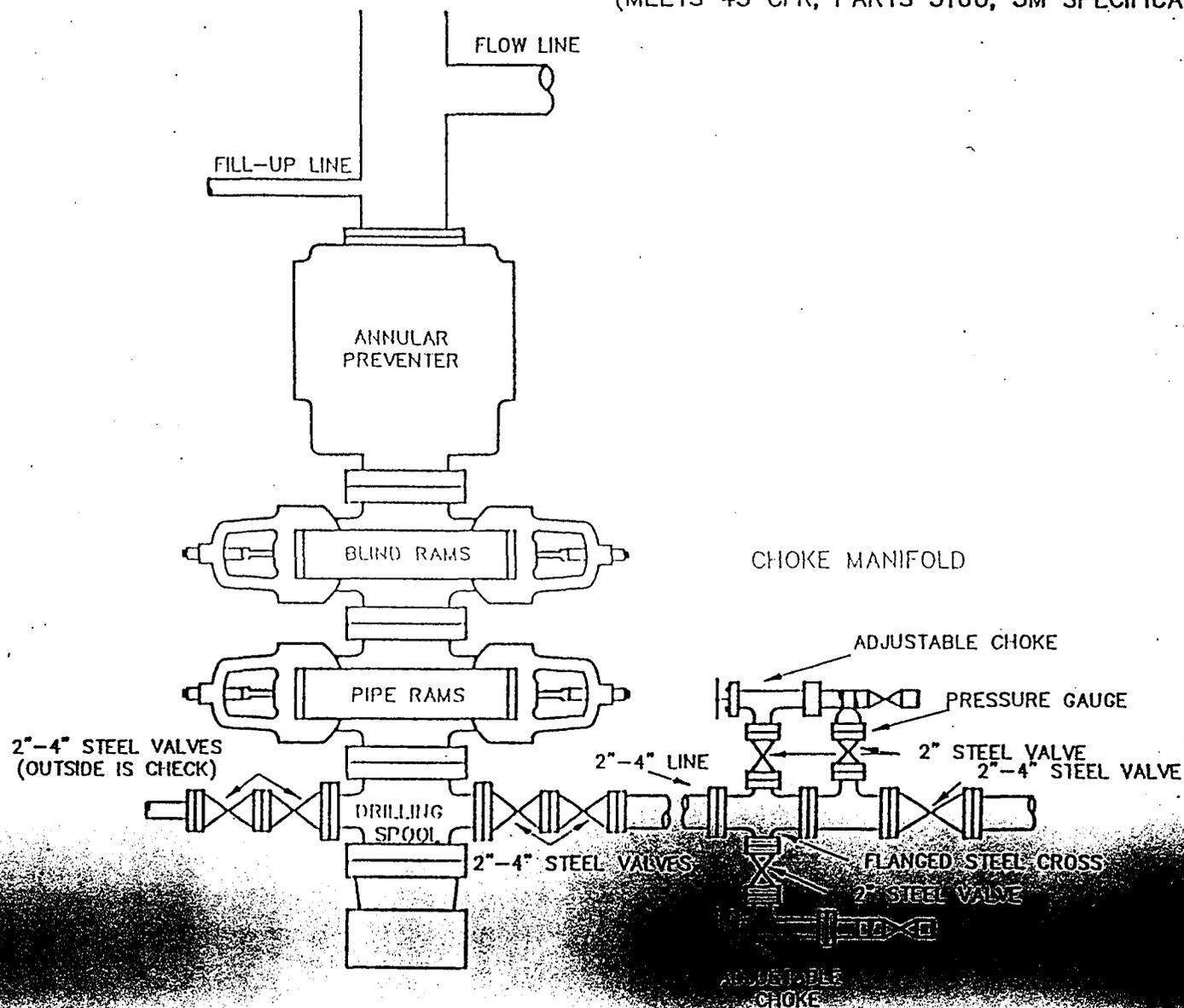
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**Duchense County, Utah**

**DRILLING PROGRAM**

- l. Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communications, not later than 5 days following the date on which the well is placed on production.
- m. Pursuant to Onshore Order No. 7, with the approval of the District Engineer, produced water may be temporarily disposed of into unlined pits for a period of up to 90 days. During the period so authorized, an application for approval of the permanent disposal method, along with the required water analysis and other information, must be submitted to the District Engineer.
- n. Pursuant to NTL-4A, lessees or operators are authorized to vent/flare gas during initial well evaluation tests, not exceeding a period of 30 days or the production of 50 MMCF of gas, whichever occurs first. An application must be filed with the District Engineer and approval received, for any venting/flaring of gas beyond the initial 30 day or authorized test period.
- o. A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3 and 3162.7-4 shall be submitted to the appropriate District Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in 43 CFR 3162.7 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.
- p. A first production conference will be scheduled within 15 days after receipt of the first production notice.
- q. No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.
- r. Pursuant to Onshore Oil and Gas Order No. 1, lessees and operators have the responsibility to see that their exploration, development, production, and construction operations are conducted in a manner which conforms with applicable Federal laws and regulations and with State and local laws and regulations to the extent that such State and local laws are applicable to operations on Federal or Indian lands.

Typical BOP Equipment. Actual Configuration May Vary Slightly But Will Conform With Onshore Order No. 2

THREE PREVENTER HOOKUP  
CLASS III  
(MEETS 43 CFR, PARTS 3160, 3M SPECIFICATIONS)



Medallion Exploration  
Antelope Creek #1  
548' FNL and 519' FEL  
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Lease No. UTU-77315

SURFACE USE PLAN

ONSHORE OIL & GAS ORDER NO. 1

NOTIFICATION REQUIREMENTS

- Location Construction - forty-eight (48) hours prior to construction of location and access roads.
- Location Completion - prior to moving on the drilling rig.
- Spud Notice - at least twenty-four (24) hours prior to spudding the well.
- Casing string and - twenty-four (24) hours prior to running casing and cementing all casing strings.  
Cementing
- BOP and Related - twenty-four (24) hours prior to initiating pressure tests.  
Equipment Tests
- First Production - within five (5) business days after new well begins or production resumes after  
Notice well has been off production for more than ninety (90) days.

The onsite inspection for the subject well was conducted on Thursday, March, 5, 1998 at approximately 9:30 a.m. Weather conditions were warm and sunny. In attendance at the onsite inspection were the following individuals:

Craig Darlington  
Steven Lamb  
Gene Caldwell  
Chauncie Todd  
Barry Burkhardt  
John E. Fausett  
Jim Justice

Bureau of Land Management  
Medallion Exploration  
Medallion Exploration  
USFS  
USFS  
Fausett INC. Construction  
J-West

Medallion Exploration  
Antelope Creek #1  
548' FNL and 519' FEL  
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Lease No. UTU-77315

SURFACE USE PLAN

1. Existing Roads

a. The proposed well site is located approximately 26.1 miles southwest of Myton, Utah.

b. Directions to the location from Myton, Utah is as follows:

Proceed in a southwesterly direction for approximately 8.8 miles to the junction of this road and the Sowers Canyon road to the south. Turn left onto the Sowers Canyon road and continue on a southerly direction for approximately 6.6 miles. Turn left onto the Antelope Canyon road and proceed in a southerly direction 1 – mile to an existing road to the left. Turn left and proceed east for .6 – miles to the junction of this road and an existing road to the south. Turn right and proceed south approximately 9.1 miles to the junction of this road and a road to the west. Turn left and proceed west .2-miles to the proposed location.

c. For location of access roads within a 2-Mile radius, see Maps A & B.

d. Improvement to the existing access will not be necessary.

e. All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.

f. Existing roads and newly constructed roads on surface under the jurisdiction of any Surface Managing Agency shall be maintained in accordance with the standards of the SMA.

2. Planned Access Roads

a. Approximately .2 miles of access will need to be upgraded. Flat blading is all that will be required as shown on Map A.

b. The maximum grade of the access will be approximately 4%.

c. No turnouts are planned.

d. Some low water crossings will not be necessary. There are no major cuts and fills. No culverts and/or bridges will be required.

e. If well is completed and put on production then all roads will conform to SMA.

f. The use of surfacing material is not anticipated, however it may be necessary depending on weather conditions.

Medallion Exploration  
 Antelope Creek #1  
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SURFACE USE PLAN

- g. No cattle guards will be installed.
- h. Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.
- i. Access roads and surface disturbing activities will conform to standards outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development. (1989).
- j. The road will be constructed/upgraded to meet the standards of the anticipated traffic flow and all weather road requirements. Construction/upgrading shall include ditching, draining, graveling, crowing and capping the roadbed as necessary to provide a well constructed safe road. Prior to upgrading, the road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 30 foot right-of-way will not be allowed. Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossing nor shall the drainage's be blocked by the roadbed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided.
- k. No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well,. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produce, stored, transported, or disposed of in association with the drilling of this well.
- l. A right of way will be necessary for access roads located outside of Lease No. UTU-77315. Total length of the right of way will be approximately 3- miles . An additional .4 - miles is located within the lease. Right of Way may be issued to the wellhead if preferred by your office.

For location of right of way, please see Map "B" attached. The following USFS acreage will be affected:

T12S-R25E

Sec. 13:	E/2
Sec. 12:	S/E/1/4
Sec. 7:	W/2
Sec. 6:	S/W/1/4 & N/E/1/4

There are no related structures or facilities planned at this time.  
 If well is completed as a producer then a surface pipeline will need to laid.

The right of way is requested for 30 years or the entire life of the producing well, whichever is longer.

Medallion Exploration  
Anteiope Creek #1  
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SURFACE USE PLAN

The road will be used year-round for maintenance of production facilities. Only flat blading of the existing roadway will be required at this time. No temporary work areas will be needed.

Attached is the application and monitoring fee in the amount of \$175.00.

3. Location of Existing Wells Within a 1-Mile Radius of the Proposed Location.  
(See Map #C).

- a. Water wells – none.
- b. Injection wells – none
- c. Producing wells – none
- d. Drilling wells – none
- e. Shut-in wells – none
- g. Disposal wells – none
- h. Abandoned wells – one
- i. Dry Holes

4. Location of Tank Batteries and Production Facilities.

- a. All permanent structures (onsite for six months or longer) constructed or installed (including oil well pump jacks) will be painted Desert Tan (10YR6/3). All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded.
- b. If storage facilities/tank batteries are constructed on this lease, the facility, battery or the well pad shall be surrounded by a containment dike of sufficient capacity to contain at a minimum, the entire content of the largest tank within the facility/battery. Unless more stringent protective requirements are deemed necessary by the authorized officer.
- c. A Sundry Notice will be submitted showing placement of all production facilities prior to construction.

Medallion Exploration  
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Lease No. UTU-77315

SURFACE USE PLAN

- d. All loading lines will be placed inside the berm surrounding the tank battery.
- e. Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flow line will be buried or anchored down from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.
- f. The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil and Gas Order No. 4 for liquid hydrocarbons and Onshore Oil and Gas Order No. 5 for natural gas measurement.
- g. If at any time the facilities located on public land and authorized by the terms of the lease are no longer included in the lease (due to a contraction in the unit or other lease or unit boundary change), BLM will process a change in authorization to the appropriate statute. The authorization will be subject to appropriate rental or other financial obligation as determined by the authorized officer.
- h. Any necessary pits will be properly fenced to prevent any wildlife entry.
- i. All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.
- j. All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the District Manger.
- k. All access roads will be maintained as necessary to prevent erosion and accommodate year-round traffic.
- l. The road will be maintained in a safe useable condition.

5. Location and Type of Water Supply

Medallion Exploration  
Antelope Creek #1  
548' FNL and 519' FEL  
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Lease No. UTU-77315

SURFACE USE PLAN

- a. All water needed for re-entry purposes will be obtained from Kenneth and Barbara Richens permit # 43-1721. Located in Sec. 34, T3S, R2W. A copy of the permit identifying the permit number and point of diversion is attached.
- b. Water will be hauled to location over the roads marked on Maps A and B.
- c. No water well is to be drilled on this lease.

6. Source of Construction Material

- a. Surface and subsoil materials in the immediate area will be utilized.
- b. Any gravel used will be obtained from a commercial source.
- c. The use of materials under BLM and USFS jurisdiction will conform with 43 CFR 3610.2.3, Construction material will not be located on lease.
- d. No construction materials will be removed from Federal land.

7. Methods of Handling Waste Disposal

- a. A 40' x 60' x 8' deep reserve pit will be constructed for this re-entry.
- b. Burning will not be allowed. All trash will be contained in a trash cage and its contents removed at the end of drilling operations and hauled to an approved disposal sight.
- c. After first production, produced wastewater will be confined to an unlined pit or storage tank for a period not to exceed ninety (90) days. During the 90-day period, in accordance with Onshore Order No.7, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance.
- d. Drill cuttings are to be contained and buried in the flare pit.

Medallion Exploration  
Antelope Creek #1  
548' FNL and 519' FEL  
NE/ NE Sec. 24, T6S - R4W

Lease No. UTU-77315

SURFACE USE PLAN

- e. Any salts and/or chemicals, which are an integral part of the drilling system, will be disposed of in the same manner as the drilling fluid.
- f. A chemical porta-toilet will be furnished with the drilling rig.
- g. The produced fluids will be produced into a test tank until such time as construction of production facilities is completed. Any spills of oil, gas, salt water or other produced fluids will be cleaned up and removed.

8. Ancillary Facilities

There are no airstrips, camps or other facilities planned during the drilling of the proposed well.

9. Well Site Layout

- a. The operator or his/her contractor shall contact the BLM Office at 435-789-1362 forty-eight (48) hours prior to construction activities.
- b. The flare pit will be located on the south east side of the location.
- c. The flare pit will be located downwind of the prevailing wind direction on the northwest side of location, a minimum of 100 feet from the well head.
- d. The stockpiled topsoil (first six inches) will be stored in a windrow fashion on the southwest side of the location between points 3 & C.
- e. Access to the well pad will be from the west between points 2 and 3.
- f. See Location Layout for orientation of rig, cross section of drill pad and cuts and fills.
- g. The location of mud tanks; flare pit, trash cage; pipe racks and soil stockpiles will be shown on the Location Layout.
- h. During construction, all brush will be removed from the well pad and access road and stockpiled separately from the topsoil.

Medallion Exploration  
Antelope Creek #1  
548' FNL and 519' FEL  
NE/ NE Sec. 24, T6S - R4W

Lease No. UTU-77315

**SURFACE USE PLAN**

- i. All pits will be fence according to the following minimum standards:
  1. 39 inch net wire shall be used with at least one strand or barbed wire on top of the net wire (barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence).
  2. The net wire shall be no more than 2-inches above the ground. The barbed wire shall be 3-inches above the net wire. Total height of the fence shall be at least 42-inches.
  3. Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
  4. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16 feet.
  5. All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.
- j. The reserve pit fencing will be on three sides during drilling operations and on the fourth side when the rig moves off the location. Pits will be fenced and maintained until cleanup.

**10. Plans for Restoration of Surface**

**Producing Location**

- a. Immediately upon well completion the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash and junk not required for production.
- b. Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with 43 CFR 3162.7-1.
- c. Reclamation of unused disturbed areas on the well pad/access road no longer needed for operations, such as cut slopes, and fill areas will be accomplished by grading, leveling and seeding as recommended by the Authorized Officer.
- d. The seed mixture for reclamation work will be a sight specific mixture as recommended by the authorized officer of the USFS at the time of reclamation. Seeding will be performed in the fall after September 15 or until permanent

Medallion Exploration  
Antelope Creek #1  
548' FNL and 519' FEL  
NE/ NE Sec. 24, T6S - R4W

Lease No. UTU-77315

**SURFACE USE PLAN**

ground freeze. Any other seeding period will require the approval of the authorized officer of the USFS.

**Dry Hole**

- a. At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment the BLM and or USFS will attach the appropriate surface rehabilitation conditions of approval.

**11. Surface Ownership**

Access Roads – All roads are County maintained or managed by the USFS.

Well pad – The well pad is located on lands managed by the USFS.

**12. Other Information**

- a. A Class III archeological survey was not deemed necessary. This well was previously drilled in 1952.
- b. The operator is responsible for informing all persons in the areas who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archeological sites, or for collecting artifacts. If historic or archeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and contact the authorized officer (AO). Within five working days the AO will inform the Operator as to:
  - whether the materials appear eligible for the National Register of Historic Places;
  - the mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and
  - at a time frame for the AO to complete and expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate. If the operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that required mitigation has been completed, the operator will then be allowed to resume construction.

Medallion Exploration  
Antelope Creek #1  
548' FNL and 519' FEL  
NE/ NE Sec. 24, T6S - R4W

Lease No. UTFU-77315

SURFACE USE PLAN

- c. The operator will control noxious weeds along rights-of-way for roads, pipelines, well sites, or other applicable facilities. A list of noxious weeds may be obtained from the USFS, or the appropriate County Extension Office. On BLM administered land it is required that a Pesticide Use Proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or possible hazardous chemicals.
- d. Drilling rig and/or equipment used during drilling operations on this well site will not be stacked or stored on Federal Lands after the conclusion of drilling operations or at any other time without USFS authorization. However, if USFS authorization is obtained, it is only a temporary measure.
- e. No erosion control structures will be required by the USFS.
- f. All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved plan of operations, and any applicable Notice to Lessees. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.
- g. A complete copy of the approved APD shall be on location during construction of the location and drilling activities.
- h. There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended or abandoned will be identified in accordance with 43 CFR 3162.
- i. "Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.
- j. This permit will be valid for a period of one year form the date of approval. An extension period may be granted, if requested, prior to the expirations of the original approval period. After permit termination, a new application will be filed for approval for any future operations.
- k. The operator or his contractor shall contact the BLM Offices at 435-789-1362 and the USFS at 435-789-1181 48 hours prior to construction activities.

Medallion Exploration  
Antelope Creek #1  
548' FNL and 519' FEL  
NE/ NE Sec. 24, T6S - R4W

Lease No. UTU-77315

SURFACE USE PLAN

l. The BLM. and USFS. Office shall be notified upon site completion prior to moving on the drilling rig.

m. In the event after-hours approvals are necessary, please contact one of the following individuals:

Gerald E. Keneska	Petroleum Engineer	435-781-1190
Ed Forsman	Petroleum Engineer	435-789-7077
BLM Fax Machine		435-789-3634

Medallion Exploration  
Antelope Creek #1  
548' FNL and 519' FEL  
NE/ NE Sec. 24, T6S - R4W

Lease No. UTU-77315

SURFACE USE PLAN

13. Lessee's or Operator's Representative and Certification

Permit Matters

Medallion Exploration  
P.O. Box 1328  
Roosevelt, Utah, 84066  
435-722-4600 (O) Steve Lamb  
435-646-3441 (H)  
435-722-7500 (M)

Drilling & Completion Matters

MEDALLION EXPLORATION  
P.O. Box 1328  
Roosevelt, Utah 84066  
435/722-4600 (O) Steve Lamb  
435/646/3441 (H)  
435/722-7500 (M)

Certification

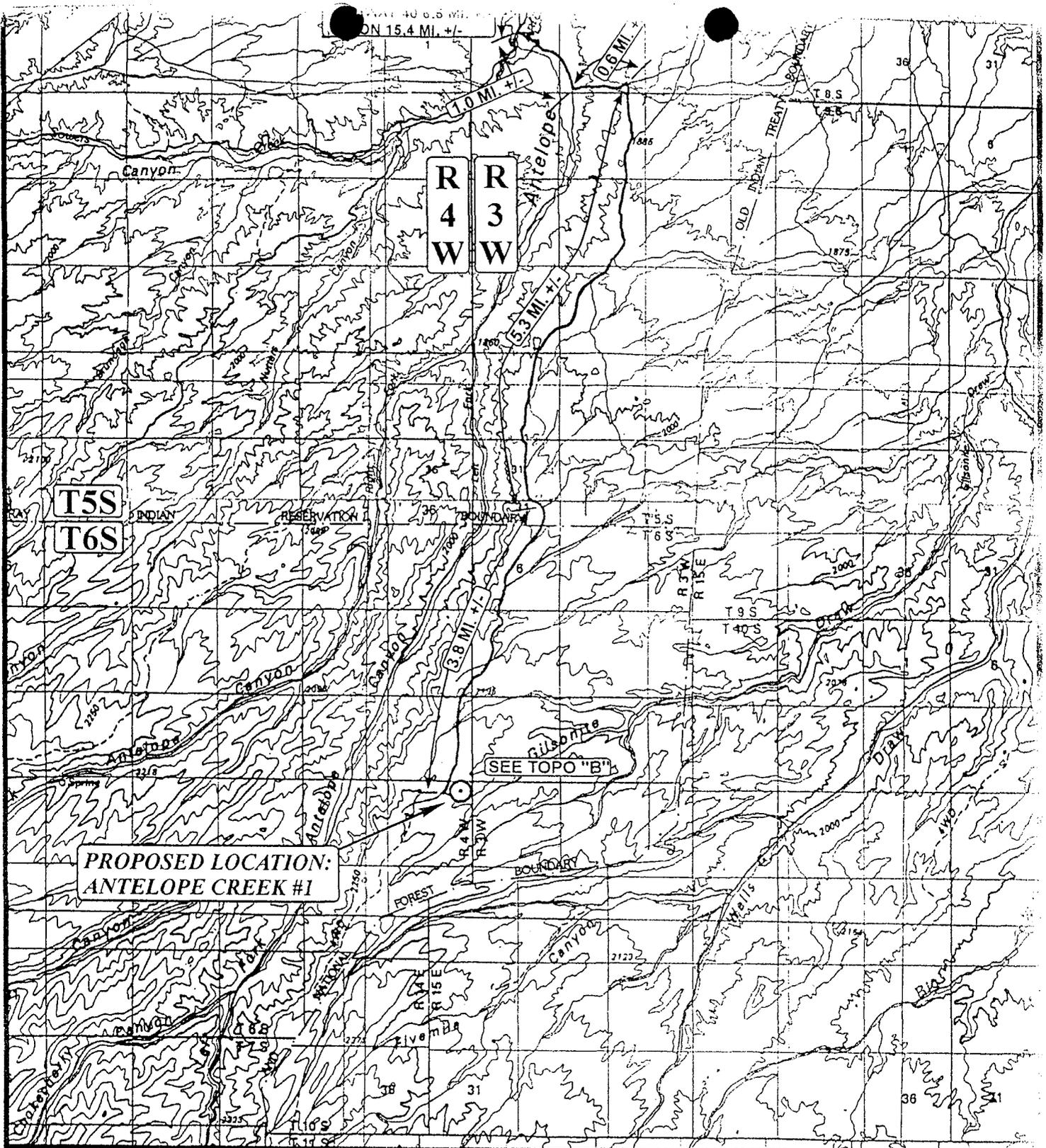
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and, that the work associated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

This statement is subject to the provisions of 18.U.S.C. 100 for the filing of a false statement.

March 12, 1998

---

Steven b. Lamb  
Field Supt.  
Medallion Exploration.



**LEGEND:**

○ PROPOSED LOCATION

**MEDALLION EXPLORATION**

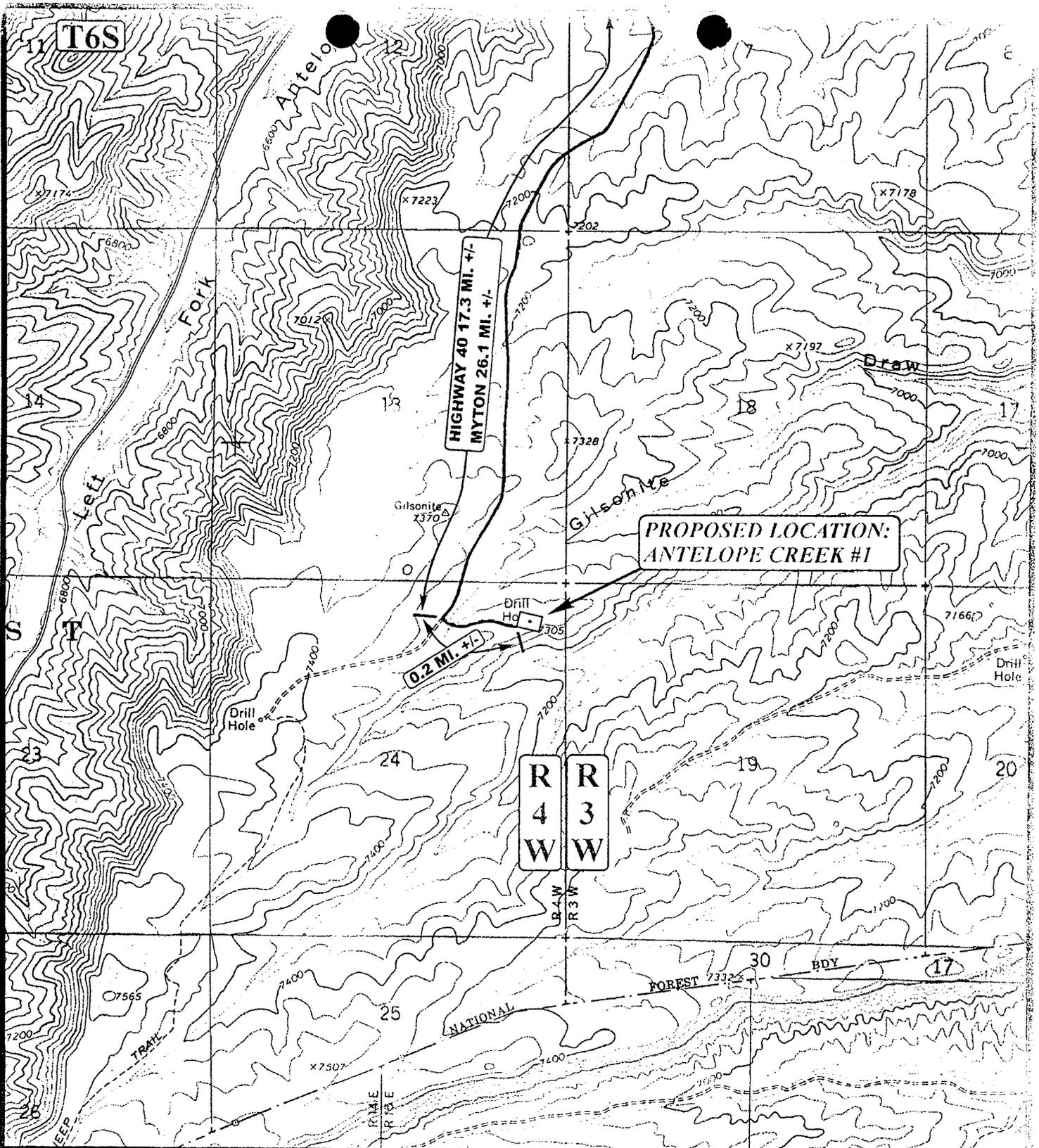
**ANTELOPE CREEK #1**  
**SECTION 24, T6S, R4W, U.S.B.&M.**  
**548' FNL 519' FEL**



Utah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



TOPOGRAPHIC	7	7	98	A TOPO
MAP	MONTH	DAY	YEAR	
SCALE: 1: 100,000		DRAWN BY: C.B.T.		REVISED: 00-00-00



**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING ROAD

**MEDALLION EXPLORATION**

**ANTELOPE CREEK #1**  
**SECTION 24, T6S, R4W, U.S.B.&M.**  
**548' FNL 519' FEL**



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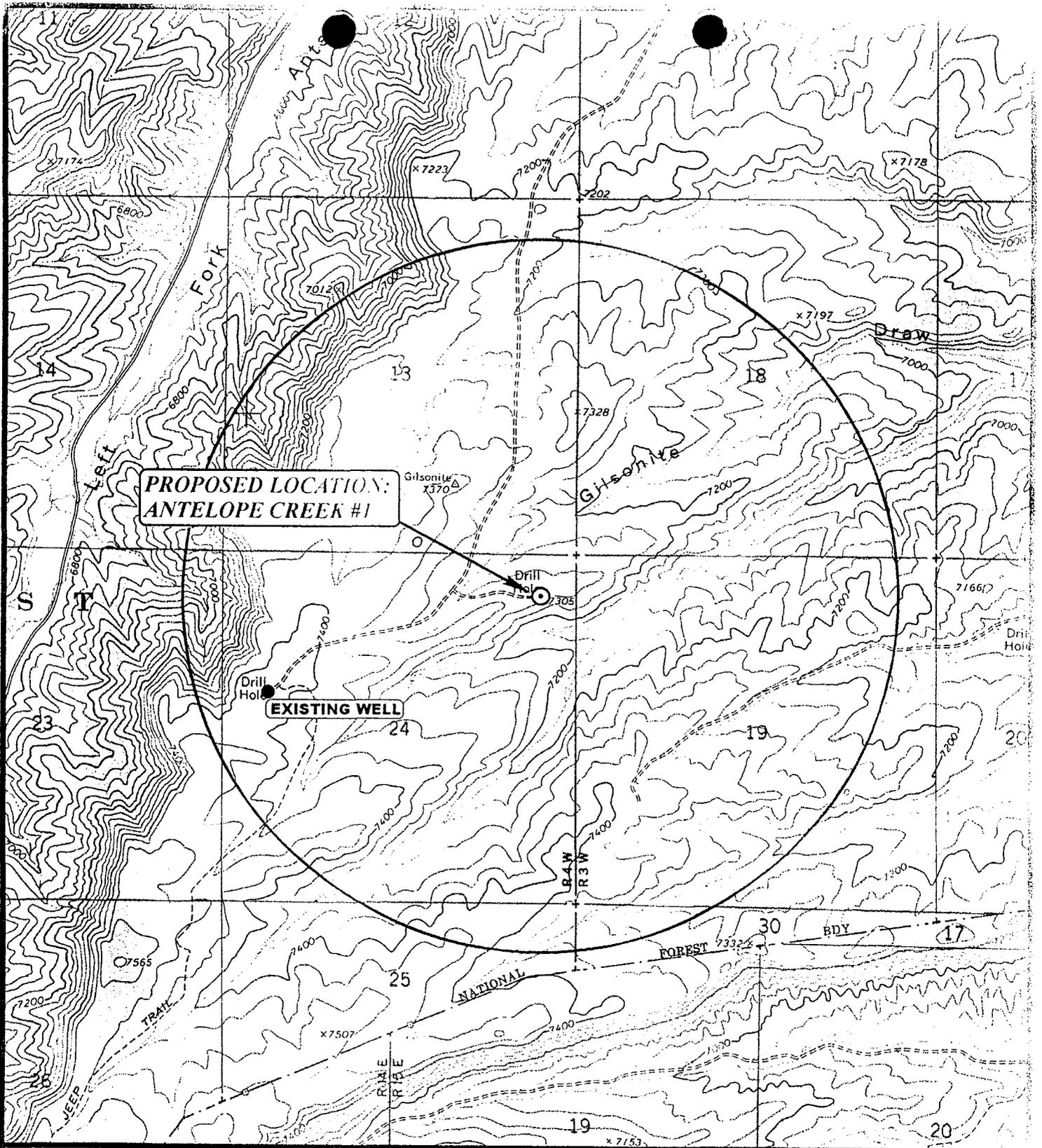


TOPOGRAPHIC  
 MAP

7	7	98
MONTH	DAY	YEAR



SCALE: 1" = 2000' DRAWN BY: C.B.T. REVISED: 00-00-00



**LEGEND:**

- ⊗ DISPOSAL WELLS
- PRODUCING WELLS
- ⬇ SHUT IN WELLS
- ⊕ WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

**MEDALLION EXPLORATION**

**ANTELOPE CREEK #1**  
**SECTION 24, T6S, R4W, U.S.B.&M.**  
**548' FNL 519' FEL**

**U&L S**  
 Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



<b>TOPOGRAPHIC MAP</b>	<b>7</b> MONTH	<b>7</b> DAY	<b>98</b> YEAR	<b>C</b> TORO
SCALE: 1" = 2000'		DRAWN BY: C.B.T.		REVISED: 00-00-00

DE: a19379 WATER RIGHT: 43-1721 CERT. NO.: 5421 AMENDATORY? No

EVIDENCED BY: 43-1721 (A10906) Cert. #5421

RES: Point of Diversion ( ), Place of Use (X), Nature of Use (X), Reservoir Storage ( ).

Richons, Kenneth V. & Barbara U. OWNER MISC:
Box 244
Myton STATE: UT ZIP: 84052 INTEREST: 100% tenants in common

10/12/1995|RECD BY: [BMW] |PRIORITY: 10/12/1995|ADV DESIG: 10/16/1995|BY: [RWL] |PAPER: Uintah Basin
11/07/1995|PUB ENDED: 11/14/1995|FIRST END: 12/04/1995|PROTESTED: [No] |PROOF FUR: 12/15/1995|BY: [DD 1]
DESIG: [Approved] |A/R DESIG: 01/24/1996|REG ENG: [RWL] |APPROP: [KLT] |MEMO DEC: [Yes] |APPR/REJECT: [Approved]
/REJ: 09/27/1996|PROOF DUE: 06/30/2000|EXTENSION: / / |ELEC/PROOF: ( ) |SLEC/PROOF: / / |ROUGH DRAFT: / /
WUC: / / |LAP. ETC: / / |PROV LETR: / / |RENOVATE: / /

us: APP Date Verified: 10/15/1995 Initials: BMW

HERETOFOR HEREAFTE

Flow: 1.12 cfs R/W:
Water Right Numbers 43-1721 and
43-1723 are together limited to the annual
diversion of 135.37 acre-feet.
SOURCE: Babcock Draw
COUNTY: Duchesne COM DESC: 2 miles southwest of Myton.

Point of diversion as per certificate:
North 44 degrees 45 minutes East 2112
feet from the the SW corner of the
NW1/4SW1/4 of Sec. 34, T3S, R2W, USB&M.

NT(S) OF DIVERSION
nt Surface:
N 180 ft E 1487 ft from W4 cor, Sec 34, T 3S, R 2W, USB&M
Diverting Works: concrete diversion box
Source:

SAME AS HERETOFOR

CE OF USE

CHANGED as follows:

Table with columns for section identifiers (NW4, NE4, SW4, SE4) and rows of water right details (ALL T, 8S R, 11E SLEB, etc.)

WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 08/10/98

API NO. ASSIGNED: 43-013-10173

WELL NAME: ANTELOPE CREEK 1 (RE-ENTRY)  
 OPERATOR: MEDALLION EXPLORATION (N5050)  
 CONTACT: Steven Lamb (435)722-4600

PROPOSED LOCATION:  
 NENE 24 - T06S - R04W  
 SURFACE: 0548-FNL-0519-~~FWL~~ FEL  
 BOTTOM: 0548-FNL-0519-~~FWL~~ FEL  
 DUCHESNE COUNTY  
 WILDCAT FIELD (001)

INSPECT LOCATION BY: / /		
TECH REVIEW	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: FED  
 LEASE NUMBER: UTU-77315  
 SURFACE OWNER: Federal

PROPOSED FORMATION: GRRV

RECEIVED AND/OR REVIEWED:

Plat

Bond: Federal  State  Fee   
 (No. KT-1066)

Potash (Y/N)

Oil Shale (Y/N) \*190-5(B)

Water Permit  
 (No. 43-1721)

RDCC Review (Y/N)  
 (Date: \_\_\_\_\_)

St/Fee Surf Agreement (Y/N)

LOCATION AND SITING:

R649-2-3. Unit \_\_\_\_\_

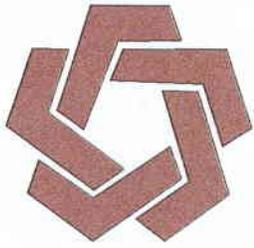
R649-3-2. General

R649-3-3. Exception

Drilling Unit  
 Board Cause No: \_\_\_\_\_  
 Date: \_\_\_\_\_

COMMENTS: \*Footage correction "see Survey Plat". (Fr. 600 FNL 500 FEL)

STIPULATIONS: ① FEDERAL APPROVAL



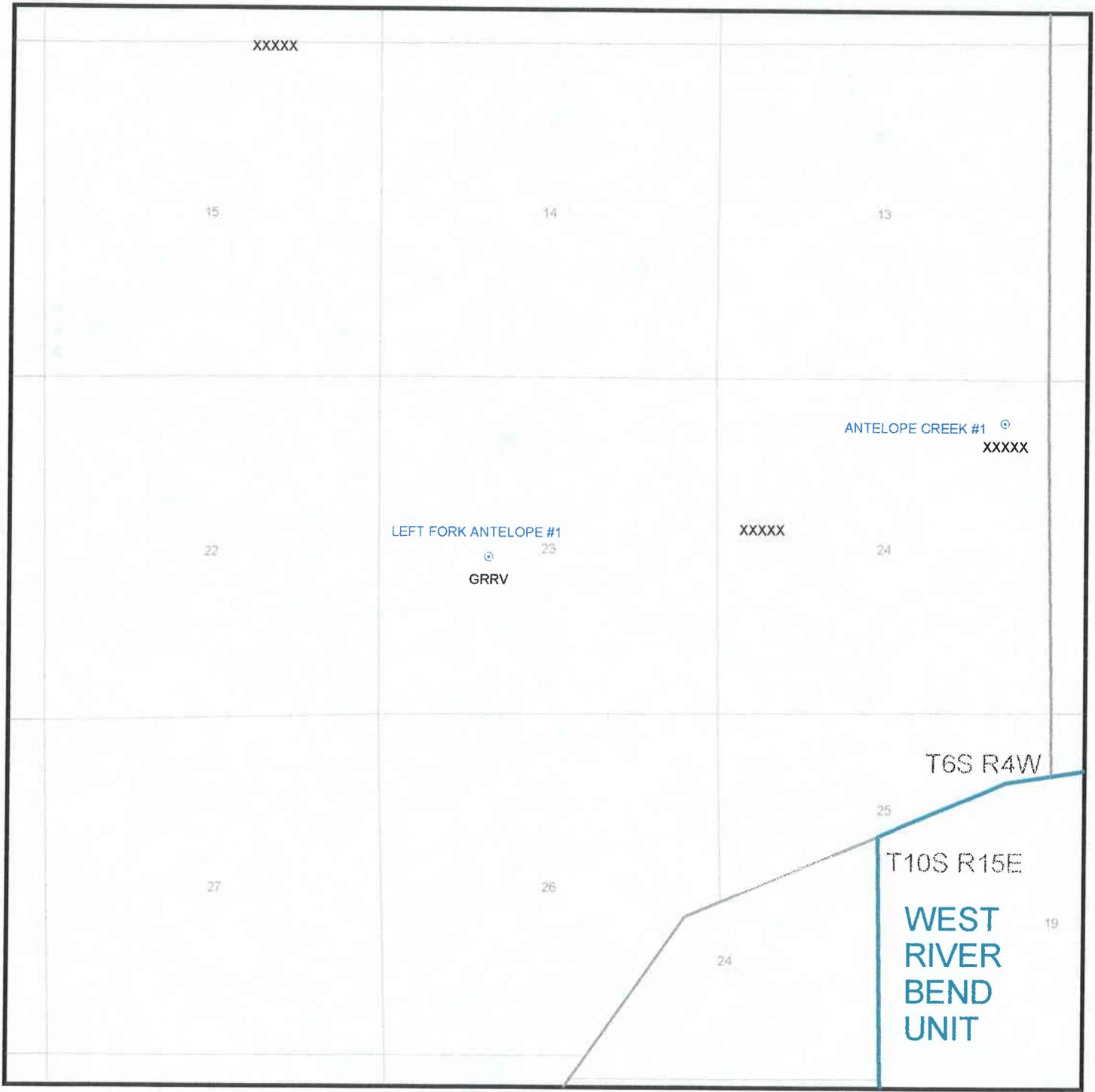
DIVISION OF OIL, GAS & MINING

OPERATOR: MEDALLION EXPLORATION (N5050)

FIELD: WILDCAT (001)

SEC. 23 & 24, TWP 6S, RNG 4W

COUNTY: DUCHESNE UAC: R649-3-2 STATEWIDE & R649-3-3 EXCEPTION



DATE PREPARED:  
18-AUG-1998

INSPECTOR: CG            DATE ASSIGNED: 900305  
                          DATE COMPLETE: 900507

DEADLINE: 900605

OPERATOR : NO210 : CHEVRON USA INC  
WELL NAME: ANTELOPE CREEK UNIT #1  
S: 24 T: 6.0 S R: 4.0 W  
COUNTY: DUCHESNE

LEASE: PUBLIC  
API : 43-013-10173

FIELD: 120 : SOWERS CANYON

ACTION TYPE: FOLLOW\*UP\*\*\*

ACTION REQUIRED:

LAST\*INSP-1987-LAST\*INSP\*SAYS-THIS\*MAY\*BE\*A\*WATER\*WELL.\*\*\*\*\*  
CONTACT\*WATER\*RIGHTS-FOR\*A\*PERMIT.\*\*\*\*\*  
\*\*\*\*\*

ACTION TAKEN:

WATER\*RIGHTS\*RECORDS\*SHOW\*THAT\*NO\*ONE\*HAS\*FILED\*FOR\*A\*WATER\*USE\*PERMIT\*FOR\*THIS  
WELL.\*WELL\*SHOULD\*BE\*CONSIDERED\*P/A'D-JLT-5/7/90.\*\*\*\*\*  
\*\*\*\*\*

PF KEYS: (1) NO UPDT    (9) WELL DATA    (12) DELETE    (16) EXIT

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
OIL AND GAS INSPECTION RECORD

PPA

OPERATOR: CHEVRON USA INC LEASE: PUBLIC  
WELL NAME: ANTELOPE CREEK UNIT #1 API: 43-013-10173  
SEC/TWP/RNG: 24 06.0 S 04.0 W CONTRACTOR:  
COUNTY: DUCHESNE FIELD NAME: SOWERS CANYON

DRILLING/COMPLETION/WORKOVER:

- APD	- WELL SIGN	- HOUSEKEEPING	- BOPE
- SAFETY	- POLLUTION CNTL	- SURFACE USE	- PITS
- OPERATIONS	- OTHER		

SHUT-IN / TA :

- WELL SIGN	- HOUSEKEEPING	- EQUIPMENT *	- SAFETY
- OTHER			

ABANDONED:

Y MARKER	- HOUSEKEEPING	Y REHAB	- OTHER
----------	----------------	---------	---------

PRODUCTION:

- WELL SIGN	- HOUSEKEEPING	- EQUIPMENT *	- FACILITIES *
- METERING *	- POLLUTION CNTL	- PITS	- DISPOSAL
- SECURITY	- SAFETY	- OTHER	

GAS DISPOSITION:

- VENTED/FLARED	- SOLD	- LEASE USE
-----------------	--------	-------------

LEGEND: Y = YES/SATISFACTORY N = NO/UNSATISFACTORY A = NOT APPLICABLE

\*FACILITIES INSPECTED:

LOCATION, MARKER.

REMARKS:

P&A'D 08-08-82, REHAB COMPLETE, VEGETATION GROWING, HAS A 2" RISER WITH 2" VALVE NEXT TO MARKER - PROBABLY A WATER WELL.

ACTION:

NO FURTHER INSPECTION NEEDED.

INSPECTOR: ED DEPUTY

DATE: 03/05/87

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
OIL AND GAS INSPECTION RECORD

P-A  
011434 1952

OPERATOR The California Co. (Chevron Oil Co.) LEASE U-02599  
WELL NO. Well #1 Antelope Creek API 43-013-10173  
SEC. 24 T. 6S R. 4W CONTRACTOR \_\_\_\_\_  
COUNTY Duchesne FIELD WC

DRILLING/COMPLETION/WORKOVER:

<input type="checkbox"/> APD	<input type="checkbox"/> WELL SIGN	<input type="checkbox"/> HOUSEKEEPING	<input type="checkbox"/> BOPE
<input type="checkbox"/> SAFETY	<input type="checkbox"/> POLL. CONTROL	<input type="checkbox"/> SURFACE USE	<input type="checkbox"/> PITS
<input type="checkbox"/> OPERATIONS	<input type="checkbox"/> OTHER		

SHUT-IN  / TA  :  
 WELL SIGN  HOUSEKEEPING  EQUIPMENT\*  SAFETY  
 OTHER

ABANDONED:  
 MARKER  HOUSEKEEPING  REHAB.  OTHER

PRODUCTION:  
 WELL SIGN  HOUSEKEEPING  EQUIPMENT\*  FACILITIES\*  
 METERING\*  POLL. CONTROL  PITS  DISPOSAL  
 SECURITY  SAFETY  OTHER

GAS DISPOSITION:  
 VENTED/FLARED  SOLD  LEASE USE

LEGEND: Y - YES OR SATISFACTORY  
N - NO OR UNSATISFACTORY  
NA - NOT APPLICABLE

\*FACILITIES INSPECTED: \_\_\_\_\_

REMARKS: Lot 1

ACTION: \_\_\_\_\_

INSPECTOR: Wm Moore DATE 9-10-85



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

Michael O. Leavitt  
Governor  
Ted Stewart  
Executive Director  
Lowell P. Braxton  
Division Director

1594 West North Temple, Suite 1210  
PO Box 145801  
Salt Lake City, Utah 84114-5801  
801-538-5340  
801-359-3940 (Fax)  
801-538-7223 (TDD)

August 20, 1998

Medallion Exploration  
P.O. 1328  
Roosevelt, Utah 84066

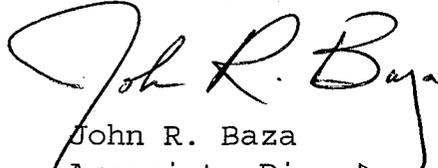
Re: Antelope Creek #1 Well, 548' FNL, 519' FWL, NE NE, Sec. 24,  
T. 6 S., R. 4 W., Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-10173.

Sincerely,

  
John R. Baza  
Associate Director

lwp

Enclosures

cc: Duchesne County Assessor  
Bureau of Land Management, Vernal District Office

Operator: Medallion Exploration  
Well Name & Number: Antelope Creek #1  
API Number: 43-013-10173  
Lease: UTU-77315  
Location: NE NE Sec. 24 T. 6 S. R. 4 W.

### Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

2. Notification Requirements

Notify the Division within 24 hours prior to spudding the well. Contact Jim Thompson at (801)538-5336.

Notify the Division prior to commencing operations to plug and abandon the well. Contact Dan Jarvis at (801) 538-5338 or Robert Krueger at (801) 538-5274.

3. Reporting Requirements

All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval which must be obtained prior to drilling.

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

1b. TYPE OF WELL  
OIL WELL  GAS WELL  OTHER   
SINGLE ZONE  MULTIPLE ZONE

2. NAME OF OPERATOR  
Medallion Exploration

3. ADDRESS OF OPERATOR  
P.O. Box 1328 Roosevelt, Utah 84066 435-722-4600

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)  
At Surface NE/NE, 548' FNL & 519' FWL, SEC. 24  
At proposed Prod. Zone *43-013 10173*

5. LEASE DESIGNATION AND SERIAL NO.  
UTU-77315

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
ANTELOPE CREEK #1

9. WELL NO.  
#1

10. FIELD AND POOL OR WILDCAT  
WILDCAT

11. SEC., T., R., M., or BLK.  
AND SURVEY OR AREA  
SEC. 24, T6S, R4W

12. COUNTY OR PARISH DUCHESNE 13. STATE UTAH

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
22 MILES SOUTHEAST OF MYTON, UTAH

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)  
519'

16. NO. OF ACRES IN LEASE  
2,222.74

17. NO. OF ACRES ASSIGNED TO THIS WELL  
320

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT.  
4100'

19. PROPOSED DEPTH  
7350'

20. ROTARY OR CABLE TOOLS  
ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

22. APPROX. DATE WORK WILL START\*  
UPON APPROVAL

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMENT
13 3/8"	10 3/4"	40.5	489'	
9 7/8"	7"	26#	5204'	242 SKS was pumped Aug 1952
6 1/8"	4 1/2" Liner	11.6#	5,000' to 7,350'	332 sks G w/10% gypsum, 10% salt .4 % FL-52. Accurate amounts from log.

Medallion Exploration proposes to clean out P&A plugs to 5204' in 7" casing. Test 7" casing to 2500 psi. Drill to a depth of 7350' (estimate) and test the Chapita B formation. If well is productive when a 4 1/2" liner will be run and cemented. If well is not a producer then the Chapita formation will be plugged back as per BLM requirements at which time Medallion Exploration will propose to perforate and test the Greenriver formation. If the well is not completed has a producer in the Greenriver formation it we be P&A has per USFS & BLM recommendations.

All operations will be covered under Medallion Explorations federal bond # UT-1066.

This APD is also request for Right-of-way

RECEIVED  
AUG 10 1998

- C; 3- BLM, Vernal
- C; 2- USFS, Vernal
- C; 2- Utah Div. Of Oil, Gas, and Mining

RECEIVED  
OCT 21 1998  
DIV. OF OIL, GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSE DRILLING 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.

24. SIGNED *Stuart Lamb* TITLE FIELD SUPERINTENDENT DATE 6-Aug-98

(THIS SPACE FOR FEDERAL OR STATE OFFICE USE.)

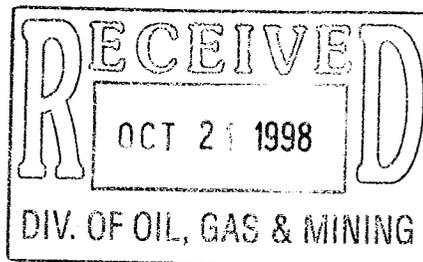
APPROVED BY *Jerry Kenagy* TITLE Assistant Field Manager Mineral Resources DATE OCT 05 1998

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... false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

## DECISION MEMO

### **Medallion Exploration Oil and Gas Exploration**

Ashley National Forest  
Duchesne Ranger District  
Duchesne County, Utah



I have decided to authorize a proposal from Medallion Exploration of Roosevelt, UT for oil and gas exploration on the Ashley National Forest. The proposal is to re-enter and test three existing oil and gas wells as follows:

Antelope Creek #1 - NENE, Section 24, T6S, R4E, USM  
Left Fork Antelope #1 - NESW, Section 23, T6S, R4E, USM  
Alkali Canyon Federal #1 - SENE, Section 31, T6S, R4E, USM.

The proposed activity will include leveling the existing well pad by scraping existing vegetation and stockpiling topsoil. A drill rig will be located over the existing well to drill out the well plugs, perforate the well casing and test several zones for oil and gas production. The well pads will include mud pump and tanks, flare pit, pipe racks, trailer, toilet, storage tank, and trash bin.

If the wells are not completed as producers they will be plugged, all equipment will be removed, the sites will be reshaped, topsoil will be spread and the sites revegetated.

If the wells are completed as producers a sundry notice will be submitted showing where surface equipment will be set for long term production. Existing roads may need to be widened and 4 inch pipelines would be installed next to the roadway. At that time additional cultural resource and TES wildlife surveys will be required and additional mitigation measures will be applied as necessary.

The Western Uinta Basin Oil and Gas Leasing EIS was completed in 1997 disclosing the effects of oil and gas activities in this area. The Record of Decision determined which lands within the analysis area would be available for oil and gas leasing and what stipulations would be attached to the leases. That decision requires that an additional site specific analysis be completed when activities are proposed.

Medallion Exploration has since acquired leases for the areas they propose to drill. The site specific analysis has determined that the sites proposed for drilling have previously been disturbed during drilling activities. Minimal additional surface disturbance will occur. It has also been determined that no cultural resources or T&E plants or animals will be affected.

Project scoping included letters mailed to interested and affected individuals and groups, and a news release in the Uintah Basin Standard. One comment was received. That comment was in favor of re-entering the existing wells instead of drilling new wells.

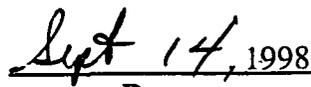
This proposed action is consistent with the management direction and guidelines as specified in the Ashley National Forest Plan of 1986 as amended by the Western Uinta Basin Oil and Gas Leasing EIS of 1997.

No significant issues within the scope of this proposal or extraordinary circumstances were identified during the scoping process. Therefore, this action falls within Category 8 [Short term mineral, energy, or geophysical investigations and their incidental support activities that may require....construction of less than one mile of low standard road, or use and minor repair of existing road, (FSH 1909.15, Section 31.2)] and is categorically excluded from documentation in an environmental impact statement or an environmental assessment.

This decision may be implemented immediately. This decision is not is not subject to appeal pursuant to 36 CFR Part 215.8 (a) (4).

For further information concerning this decision, please contact Joe Bistryski at the Roosevelt/Duchesne Ranger District, P.O. Box 981, Duchesne UT 84021 or phone (435) 738-2482.

  
\_\_\_\_\_  
JOE BISTRYSKI  
District Ranger

  
\_\_\_\_\_  
Date

CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Medallion Exploration, Inc.

Well Name & Number: Antelope Creek No. 1

API Number: 43-013-10173

Lease Number: U-77315

Location: NENE Sec. 24 T. 6S R. 4 W

**NOTIFICATION REQUIREMENTS**

- Location Construction - at least forty-eight (48) hours prior to construction of location and access roads.
- Location Completion - prior to moving on the drilling rig.
- Spud Notice - at least twenty-four (24) hours prior to spudding the well.
- Casing String and Cementing - at least twenty-four (24) hours prior to running casing and cementing all casing strings.
- BOP and Related Equipment Tests - at least twenty-four (24) hours prior to initiating pressure tests.
- First Production Notice - within five (5) business days after new well begins, or production resumes after well has been off production for more than ninety (90) days.

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

## CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Approval of this application 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.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Orders, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative by the operator to insure compliance.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

**There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.**

### A. DRILLING PROGRAM

#### 1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report **ALL** water shows and water-bearing sands to Tim Ingwell of this office **prior to setting the next casing string or requesting plugging orders**. Faxed copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

#### 2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., for a **3M** system and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil and Gas Order No. 2, regarding air or gas drilling shall be adhered to. If a mist system is being utilized then the requirement for a deduster shall be waived.

3. Casing Program and Auxiliary Equipment

As a minimum, the usable water shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the top of the shallowest potential productive zone. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

4. Mud Program and Circulating Medium

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

A cement bond log (CBL) will be run from the production casing shoe to **Top of Cement** and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

6. Notifications of Operations

A schematic facilities diagram as required by 43 CFR 3162.7-5 (b.9. d.), and shall be submitted to the appropriate District Office within sixty (60) days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-5 (b. 4).

7. Other Information

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted following initial installation and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approval or notification is necessary, please contact one of the following individuals:

Wayne Bankert Petroleum Engineer	(435) 789-4170
Ed Forsman Petroleum Engineer	(435) 789-7077
Jerry Kenczka Petroleum Engineer	(435) 789-1190
Tim Ingwell Geologist	(435) 781-4493
BLM FAX Machine	(435) 781-4410

### EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

- Unused fracturing fluids or acids
- Gas plant cooling tower cleaning wastes
- Painting wastes
- Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids
- Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste
- Refinery wastes
- Liquid and solid wastes generated by crude oil and tank bottom reclaimers
- Used equipment lubrication oils
- Waste compressor oil, filters, and blowdown
- Used hydraulic fluids
- Waste solvents
- Waste in transportation pipeline-related pits
- Caustic or acid cleaners
- Boiler cleaning wastes
- Boiler refractory bricks
- Incinerator ash
- Laboratory wastes
- Sanitary wastes
- Pesticide wastes
- Radioactive tracer wastes
- Drums, insulation and miscellaneous solids.

## SURFACE USE PROGRAM

The location was reflagged following the onsite and the changes are shown on the layout diagram of the APD. The site specific analysis has determined that the site proposed for the drilling and deepening at Antelope Creek #1 well has been previously disturbed with drilling activities. Minimal additional surface disturbance will occur. For the pad construction and drilling activities it has also been determined that no cultural resources or T&E plants or animals will be affected.

The main Forest Service Representative for this project will be Clarice Gilbert of the Duchesne Office. If you have any questions for the Forest Service contact her or Joe Bistryski who is the District Ranger there at (435) 738-2482.

The old well location will be levelled by scraping existing vegetation and stockpiling topsoil.

If the well is not completed as a producer it will be plugged, all equipment will be removed. The site will be reshaped and topsoil will be respread and the sites revegetated. This revegetation reclamation would be done according to Forest Service specifications. The following seed mix was approved for the project reclamation in Forest Service's letter of August 7, 1998:

Antelope Creek #1	lbs/acre
Goldar Bluebunch Wheatgrass	4
Fairway Crested Wheatgrass	4
Rubber Rabbitbrush	1
Black Sagebrush	1
Fourwing Saltbush	2

At this location a reserve pit will be required for deepening the well in addition to the flare pit/workover pit. If the well is a producer check with the Forest Service about reclamation for the pit and any no longer needed parts of the pad.

If the well is completed as a producer a sundry notice will be submitted showing where surface equipment will be set for long term production. Then existing roads may need to be widened and upgraded and 4-inch flowlines would be installed next to the roadway. At that time additional cultural resource and TES wildlife surveys will be required and additional mitigation measures applied as necessary/if necessary. This would be done as consistent with the Western Uinta Basin Oil and Gas Leasing EIS of 1997. The DECISION MEMO states

:"This proposed action is consistent with the management direction and guidelines as specified in the Ashley National Forest Plan of 1986 as amended by the Western Uinta Basin Oil and Gas Leasing EIS of 1997."

No significant issues within the scope of this proposal or extraordinary circumstances were identified during the scoping process.

For drilling operations the present existing road will be maintained in its present alignment with maintenance and repair as needed.

For production and producing locations:

-Access roads and surface disturbing activities will conform to standards outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development, (1989).

The road shall be constructed/upgraded to meet the standards of the anticipated traffic flow and all-weather road requirements. Construction/upgrading shall include ditching, draining, and crowning (2 to 3%). Graveling or capping the roadbed will be required as necessary to provide a well constructed safe road. Prior to construction/upgrading, the proposed road surface or existing road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 30 foot right-of-way will not be allowed. Should mud holes develop, they shall be filled in to prevent detours. Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossing nor shall the drainage be blocked by the roadbed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. When snow is removed from the road during the winter months, the snow should be pushed outside of the burrow ditches and the turn outs should be kept clear so that when the snow melts the water will be channeled away from the road.



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Vernal Field Office  
170 South 500 East  
Vernal, Utah 84078-2799  
<http://www.blm.gov/utah/vernal>

Phone: (435) 781-4400  
Fax: (435) 781-4410

IN REPLY REFER TO:

3160  
UT08300

October 18, 1999

Medallion Exploration  
P O Box 1328  
Roosevelt, UT 84066

Re: Notification of Expiration  
Well No. Antelope Creek 1  
NENE, Sec. 24, T6S, R4W  
Lease No. U-77315

Dear Mr. Lamb:

*43-013-10173*

The Application for Permit to Drill the above-referenced well was approved on October 5, 1998. Since that date, no known activity has transpired at the approved location. Applications for Permit to Drill are effective for a period of one year. In view of the foregoing, this office is notifying you the approval of the referenced application has expired. If you intend to drill at this location at a future date, a new Application for Permit to Drill must be submitted.

This office requires a letter confirming that no surface disturbance has been made for this drill site. Any surface disturbance associated with the approved location of this well is to be rehabilitated. A schedule for this rehabilitation must be submitted to this office. Your cooperation in this matter is appreciated.

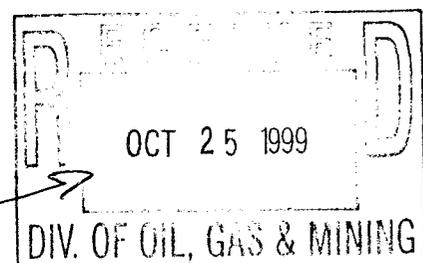
Sincerely,

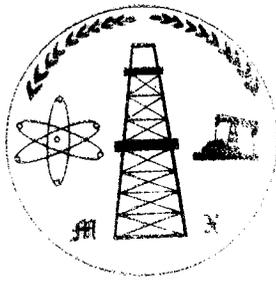
*Margie Herrmann*

Margie Herrmann  
Legal Instruments Examiner

cc: State Div. OG&M  
U.S. Forest Service

*Re-entry*  
*OGM*  
*Rescind*  
*Date*





## Medallion Exploration

May 17, 2001

State of Utah  
Division of Oil, Gas & Mining  
Attn: Gil Hunt  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

Re: Re-submission of APD's

Dear Mr. Hunt:

I have enclosed for your information, copies of the APD's I am re-submitting to the BLM and Ashley Forest Service. All related well information remains the same, but the mailing address and contact person has changed and is referenced on the new Application for Permit to Drill.

If you have any questions, please contact me at (801) 566-7400. Thank you for your help in this matter.

Sincerely,

RaSchelle Richens  
Medallion Exploration

**RECEIVED**

MAY 21 2001

DIVISION OF  
OIL, GAS AND MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE\*  
(Other instructions on  
reverse side)

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

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.  
UTU-77315

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
ANTELOPE CREEK #1

9. WELL NO.  
#1

10. FIELD AND POOL OR WILDCAT  
WILDCAT

11. SEC., T., R., M., or BLK.  
AND SURVEY OR AREA  
SEC. 24, T6S, R4W

12. COUNTY OR PARISH  
DUCHESNE

13. STATE  
UTAH

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
22 MILES SOUTHEAST TO MYTON UTAH

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)  
519'

16. NO. OF ACRES IN LEASE  
2,222.74

17. NO. OF ACRES ASSIGNED TO THIS WELL  
320'

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT.  
4100'

19. PROPOSED DEPTH  
7350'

20. ROTARY OR CABLE TOOLS  
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
7302 GR

22. APPROX. DATE WORK WILL START\*  
Upon Approval

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMENT
13-3/8"	10-3/4"	40.5	489'	242 SKS was pumped 8/1952
9-7/8"	7"	25#	5204'	332 sks G w/10% gypsum, 10% salt
6-1/8"	4-1/2" Liner	11.6#	5,000' to 7,350'	.4% FL-52 Accurate amounts from log.

Medallion Exploration proposes to clean out P&A plugs to 5204' in 7" casing. ~~Test~~ <sup>Test</sup> out 7" casing to 2,500 psi. Drill to a depth of 7,350' (estimate) and ~~Test~~ <sup>Test</sup> out the Chapita B formation. If well is productive then a 4-1/2" Liner will be run and cemented. If well is not a producer then the Chpita formation will be plugged back as per BLM requirements at which time Medallion Exploration will propose to perforate and test the Greenriver formation. If the well is not completed as a producer in the Greenriver formation it will be P&A as per USFS & BLM recommendation.

This APD is also a request for Right-of-Way

3-BLM, Vernal  
CC: 2 USFS, Vernal  
CC: 2 Utah Div. Of Oil, Gas, and Mining

Federal Approval of this  
Action is Necessary

RECEIVED

MAY 21 2001

DIVISION OF  
OIL, GAS AND MINING

IN ABOVE SPACE DESCRIBE PROPOSED DRILLING 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.

24. SIGNED: *[Signature]* TITLE: Production Assistant DATE: 5/17/01

(THIS SPACE FOR FEDERAL OR STATE OFFICE USE.)

PERMIT NO. 43-013-10173 APPROVAL DATE

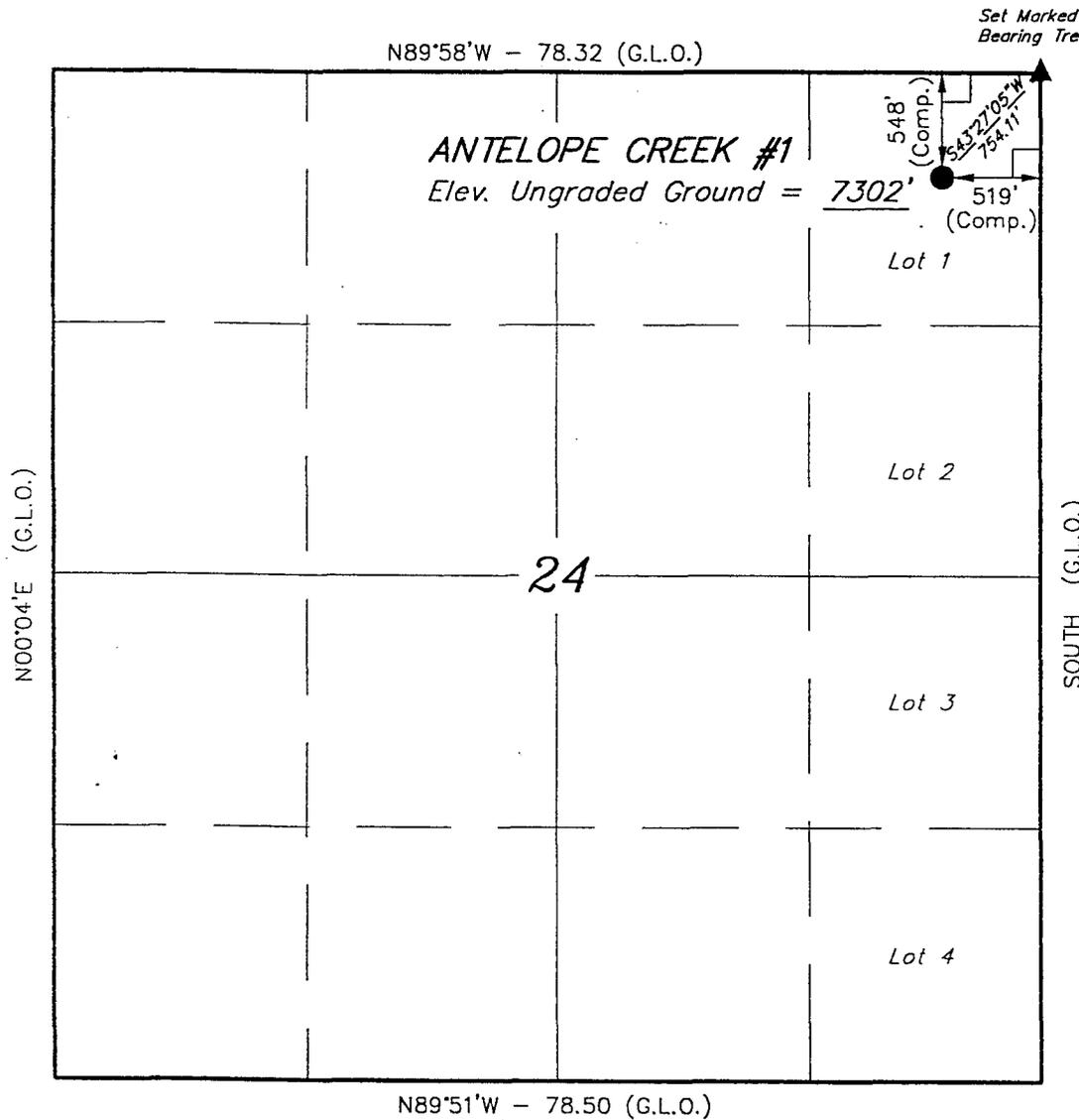
APPROVED BY *[Signature]* TITLE: BRADLEY G. HILL DATE: 05-29-01

RECLAMATION SPECIALIST III

# T6S, R4W, U.S.B.&M.

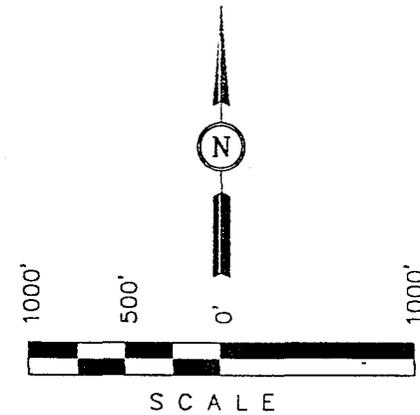
## MEDALLION EXPLORATION

Well location, ANTELOPE CREEK #1, located as shown in Lot 1 of Section 24, T6S, R4W, U.S.B.&M. Duchesne County, Utah.



### BASIS OF ELEVATION

TRIANGULATION STATION GILSONITE LOCATED IN THE SE 1/4 OF SECTION 13, T6S, R4W, U.S.B.&M. TAKEN FROM THE ANTHRO MTN. NE. QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 7370 FEET.



### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*Robert L. Kay*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 161319  
 STATE OF UTAH  
 KAY

<b>UINTAH ENGINEERING &amp; LAND SURVEYING</b>		
85 SOUTH 200 EAST - VERNAL, UTAH 84078		
(435) 789-1017		
SCALE 1" = 1000'	DATE SURVEYED: 7-2-98	DATE DRAWN: 7-13-98
PARTY K.K. T.A. C.B.T.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE MEDALLION EXPLORATION	

### LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

### NOTE:

BASIS OF BEARINGS IS A SOLAR OBSERVATION TAKEN IN LOT 1 OF SECTION 24, T6S, R4W, U.S.B.&M.

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 05/21/2001

API NO. ASSIGNED: 43-013-10173
--------------------------------

WELL NAME: ANTELOPE CREEK 1  
 OPERATOR: MEDALLION EXPLORATION ( N5050 )  
 CONTACT: RASCHELLE RICHINS

PHONE NUMBER: 801-566-7400

PROPOSED LOCATION:  
 NENE 24 060S 040W  
 SURFACE: 0548 FNL 0519 FEL  
 BOTTOM: 0548 FNL 0519 FEL  
 DUCHESNE  
 SOWERS CANYON ( 120 )

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal  
 LEASE NUMBER: UTU-77315  
 SURFACE OWNER: 1 - Federal \*USFS

PROPOSED FORMATION: WSTC

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. UT-1066 )
- Potash (Y/N)
- Oil Shale (Y/N) \*190-5 (B) or 190-3
- Water Permit  
(No. 43-1721 )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)

LOCATION AND SITING:

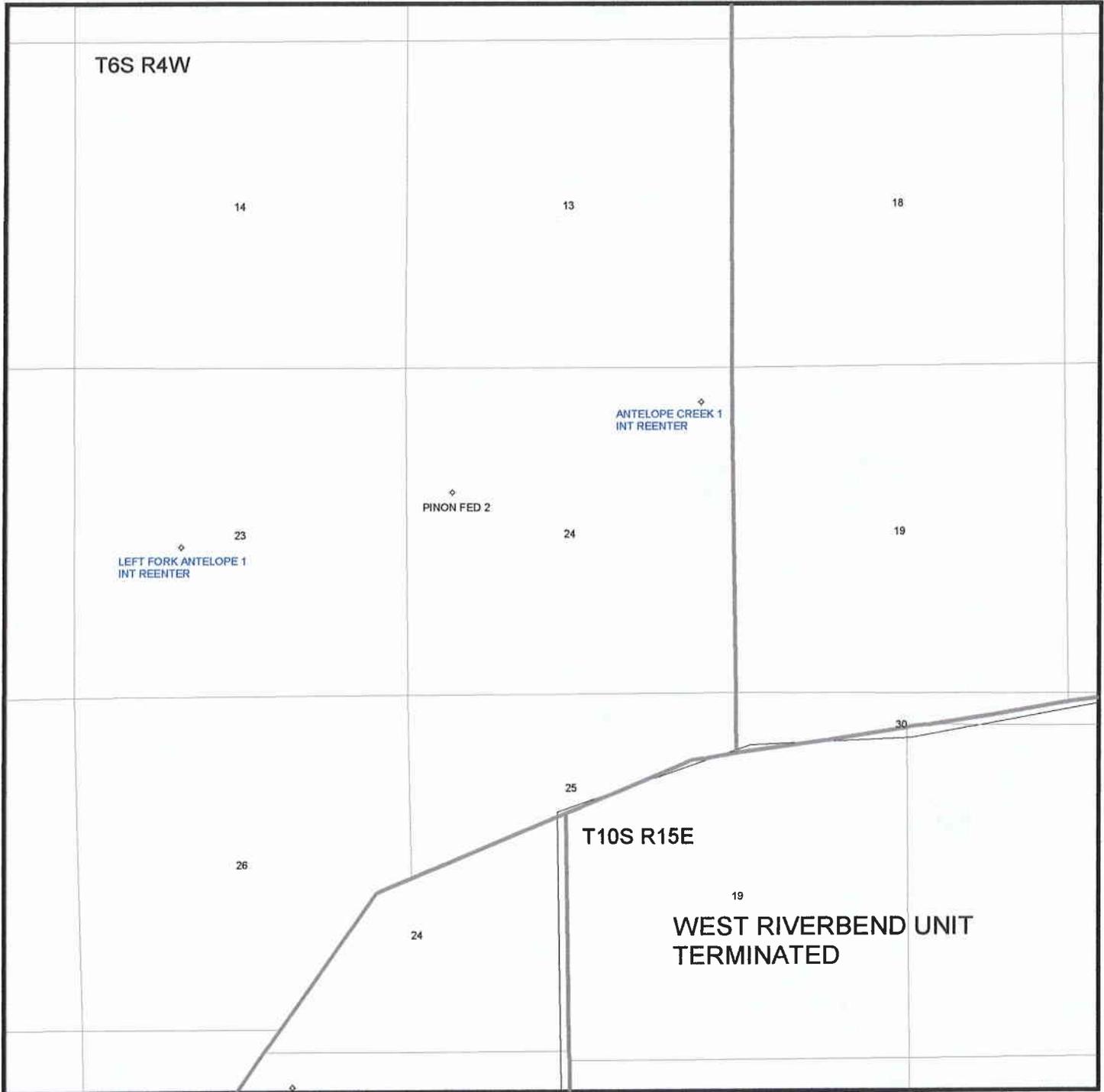
- R649-2-3. Unit \_\_\_\_\_
- R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit  
Board Cause No: \_\_\_\_\_  
Eff Date: \_\_\_\_\_  
Siting: \_\_\_\_\_
- R649-3-11. Directional Drill

COMMENTS: \_\_\_\_\_

STIPULATIONS: ① FEDERAL APPROVAL



OPERATOR: MEDALLION EXPLOR (N5050)  
SEC. 24, T6S, R4W  
FIELD: WILDCAT (001)  
COUNTY: DUCHESNE SPACING: R649-3-2/GEN ST





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

Michael O. Leavitt  
Governor

Kathleen Clarke  
Executive Director

Lowell P. Braxton  
Division Director

1594 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

May 29, 2001

Medallion Exploration  
6975 Union Park Center, Suite 310  
Midvale, UT 84047

Re: Antelope Creek 1 Well, 548' FNL, 519' FEL, NE NE, Sec. 24, T. 6 South, R. 4 West,  
Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-10173.

Sincerely,

A handwritten signature in cursive script, appearing to read "John R. Baza".

John R. Baza  
Associate Director

er  
Enclosures

cc: Duchesne County Assessor  
Bureau of Land Management, Vernal District Office

**Operator:** Medallion Exploration

**Well Name & Number** Antelope Creek 1

**API Number:** 43-013-10173

**Lease:** UTU 77315

**Location:** NE NE      **Sec.** 24      **T.** 6 South      **R.** 4 West

### Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

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

1b. TYPE OF WELL  
OIL WELL  GAS WELL  OTHER  SINGLE ZONE  MULTIPLE ZONE

2. NAME OF OPERATOR  
Medallion Exploration

3. ADDRESS OF OPERATOR  
6975 Union Park Center, Ste. 310 Midvale, Utah 84047

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
At Surface NENE 548' FNL & 519' FWL  
At proposed Prod. Zone

5. LEASE DESIGNATION AND SERIAL NO.  
UTU-77315

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
ANTELOPE CREEK #1

9. WELL NO.  
#1

10. FIELD AND POOL OR WILDCAT  
WILDCAT

11. SEC., T., R., M., or BLK. AND SURVEY OR AREA  
SEC. 24, T6S, R4W

12. COUNTY OR PARISH  
DUCHESNE

13. STATE  
UTAH

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
22 MILES SOUTHEAST TO MYTON UTAH

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)  
519'

16. NO. OF ACRES IN LEASE  
2,222.74

17. NO. OF ACRES ASSIGNED TO THIS WELL  
320'

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT.  
4100'

19. PROPOSED DEPTH  
7350'

20. ROTARY OR CABLE TOOLS  
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

22. APPROX. DATE WORK WILL START\*  
Upon Approval

RECEIVED  
MAY 21 2001

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMENT
13-3/8"	10-3/4"	40.5	489'	242 SKS was pumped 8/1952
9-7/8"	7"	25#	5204'	332 sks G w/10% gypsum, 10% salt
6-1/8"	4-1/2" Liner	11.6#	5,000' to 7,350'	4% FL-52 Accurate amounts from log.

Medallion Exploration proposes to clean out P&A plugs to 5204' in 7" casing. Tout 7" casing to 2,500 psi. Drill to a depth of 7,350' (estimate) and Tout the Chapita B formation. If well is productive then a 4-1/2" Liner will be run and cemented. If well is not a producer then the Chipita formation will be plugged back as per BLM requirements at which time Medallion Exploration will propose to perforate and test the Greenriver formation. If the well is not completed as a producer in the Greenriver formation it will be P&A as per USFS & BLM recommendation.

This APD is also a request for Right-of-Way

3-BLM, Vernal  
CC: 2 USFS, Vernal  
CC: 2 Utah Div. Of Oil, Gas, and Mining

RECEIVED

OCT 19 2001

DIVISION OF  
OIL, GAS AND MINING

IN ABOVE SPACE DESCRIBE PROPOSED DRILLING 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.

24. SIGNED [Signature] TITLE Production Assistant DATE 5/17/01

(THIS SPACE FOR FEDERAL OR STATE OFFICE USE.)

NOTICE OF APPROVAL

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
APPROVED BY [Signature] TITLE Assistant Field Manager DATE OCT 16 2001  
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.

CONDITIONS OF APPROVAL ATTACHED

CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Medallion Exploration

Well Name & Number: ANTELOPE CREEK #1

API Number: 43-013-10173

Lease Number: U - 77315

Location: NENE Sec. 24 T. 06S R. 04W

**NOTIFICATION REQUIREMENTS**

- |                                 |   |   |
|---------------------------------|---|---|
| Location Reconstruction         | - | at least forty-eight (48) hours prior to reconstruction of location and access roads.   |
| Location Completion             | - | prior to moving on the drilling or completion rig.  |
| Spud Notice                     | - | at least twenty-four (24) hours prior to drilling out the well.   |
| Casing String and Cementing     | - | at least twenty-four (24) hours prior to running casing and cementing all casing strings.   |
| BOP and Related Equipment Tests | - | at least twenty-four (24) hours prior to initiating pressure tests.   |
| First Production Notice         | - | within five (5) business days after new well begins, or production resumes after well has been off production for more than ninety (90) days. |

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

## CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Approval of this application 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.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Orders, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

### A. DRILLING PROGRAM

#### 1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report ALL water shows and water-bearing sands to this office **prior to setting the next casing string or requesting plugging orders**. Faxed copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

#### 2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., for a **2M** system and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil and Gas Order No. 2, regarding air or gas drilling shall be adhered to. If a mist system is being utilized then the requirement for a deduster shall be waived.

#### 3. As a minimum, the usable water shall be isolate and/or protected by having a cement top for the production casing at least 200 ft. above the shallowest potential productive zone. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

4. Mud Program and Circulating Medium

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

A cement bond log (CBL) will be run from the production casing shoe to the top of the cement (TOC) and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the AO. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vapor proof for safe operations). Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the AO.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the AO.

5. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) days following the date on which the well is placed on production.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-5(d) shall be submitted to the appropriate Field Office within sixty (60) days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-5 (1).

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

6. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All off-lease storage, off-lease measurement, or commingling onlease or off-lease will have prior written approval from the AO.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted on initial meter installations and at least quarterly thereafter. The AO

will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approvals are necessary, please contact one of the following individuals:

Ed Forsman                   (435) 828-7874  
Petroleum Engineer

Kirk Fleetwood           (435) 828-7875  
Petroleum Engineer

BLM FAX Machine       (435) 781-4410

## EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

Unused fracturing fluids or acids

Gas plant cooling tower cleaning wastes

Painting wastes

Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spend solvents, spilled chemicals, and waste acids

Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste

Refinery wastes

Liquid and solid wastes generated by crude oil and tank bottom reclaimers

Used equipment lubrication oils

Waste compressor oil, filters, and blowdown

Used hydraulic fluids

Waste solvents

Waste in transportation pipeline-related pits

Caustic or acid cleaners

Boiler cleaning wastes

Boiler refractory bricks

Incinerator ash

Laboratory wastes

Sanitary wastes

Pesticide wastes

Radioactive tracer wastes

Drums, insulation and miscellaneous solids.

## SURFACE CONDITIONS OF APPROVAL

The Forest Service Decision Memo states: "The site specific analysis has determined that the sites proposed for drilling have previously been disturbed during drilling activities. Minimal additional surface disturbance will occur. It has also been determined that no cultural resources or T&E plants or animals will be affected."

The main Forest Service Representative for this project will be Jeffrey DeFreest of the Duchesne Ranger District Forest Service Office. If you have any questions for the Forest Service contact him or call Joe Bistrski who is the District Ranger for the Duchesne Office at (435)-738-2482.

The layout diagram of the APD depicts the changes made at the first onsite July 29, 1998. At a more recent onsite of June 1, 2001, it was agreed to have the pad and reserve pit of the location stay within the dimensions of 175 by 300 feet shown on the layout diagram except for the addition of a 12 foot dike for the North side of the reserve pit. The reserve pit can be up to 40 by 120 feet in size as needed, although the layout shows it 40 by 60 feet. A 12 foot wide dike with 95% compaction will be constructed in front of the pit for the north side of the pit adjacent to the location where the layout diagram indicates a 10 foot dike. The pit will be leak tested and lined if needed in order to prevent leakage and conserve water and drilling fluids. If a liner is used, it will have at least a 10 mil thickness.

The old well location will be leveled by scraping existing vegetation and stockpiling topsoil.

If the well is not completed as a producer, it will be plugged, all equipment will be removed, the site will be reshaped, and topsoil will be respread and the site revegetated. This revegetation reclamation would be done according to Forest Service specifications. The following seed mix was approved for the project reclamation in the Forest Service's letter of August 7, 1998.

Antelope Creek #1 well:

Goldar Bluebunch Wheatgrass	4 lbs/acre
Fairway Crested Wheatgrass	4 lbs/acre
Rubber Rabbitbrush	1 lbs/acre
Black Sagebrush	1 lbs/acre
Fourwing Saltbush	2 lbs/acre

At this location a reserve pit will be required for the well deepening operations in addition to the flare pit. If the well is a producer check with the Forest Service about reclamation for the reserve pit and any parts of the pad not needed for production operations. The Forest Service requests that topsoil storage areas be reseeded if production is established, otherwise the entire site will be reclaimed the same season.

If the well is completed as a producer, a sundry notice will be submitted showing where surface equipment will be set for long term production. Existing roads may need to be widened and upgraded and 4-inch flowlines would be installed next to the roadway. At that time additional cultural resource and T&E Species inventories will be required and additional mitigation measures will be applied as necessary/ if necessary. This would be done in a manner consistent with the Western Uinta Basin Oil and Gas Leasing EIS of 1997. (See the Decision Memo of September 14, 1998)

For drilling operations the present existing road will be maintained in its present alignment with maintenance and repair as needed.

Access roads and surface disturbing activities will conform to standards outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development, (1989).

The road shall be constructed/upgraded to meet the standards of the anticipated traffic flow and all-weather road requirements. Construction/upgrading shall include ditching, draining, and crowning (2 to 3%). Graveling or capping the roadbed will be required as necessary to provide a well constructed safe road. Prior to construction/upgrading, the proposed road surface or existing road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 30 foot right-of-way will not be allowed. Should mud holes develop, they shall be filled in to prevent detours. Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossing nor shall the drainage be blocked by the roadbed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. When snow is removed from the road during the winter months, the snow should be pushed outside of the burrow ditches and the turn outs should be kept clear so that when the snow melts the water will be channeled away from the road.

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

<b>SUNDRY NOTICES AND REPORTS OIL WELLS</b>		<b>6. Lease Designation and Serial Number</b> UTU-77315
Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use application for permit-for such proposals		<b>7. Indian Allottee or Tribe Name</b> N/A
		<b>8. Unit of Communitization Agreement</b> N/A
<b>1. Type of Well</b> <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other (Specify)		<b>9. Well Name and Number</b> ANTELOPE CREEK #1
<b>2. Name of Operator</b> MEDALLION EXPLORATION		<b>10. API Well Number</b> 43-013-10173
<b>3. Address of Operator</b> 6975 UNION PARK CENTER, STE. 310 MIDVALE, UTAH 84047		<b>11. Field and Pool, or Wildcat</b> WILDCAT
<b>5. Location of Well</b> Footage: 548' FNL & 519' FEL CO., Sec., T., R., M. NE NE SEC. 24, T6S, R4W		COUNTY: DUCHESNE STATE: UTAH

**12 CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE. REPORT OR OTHER DATA**

NOTICE OF INTENT (SUBMIT IN DUPLICATE)	SUBSEQUENT REPORT (SUBMIT ORIGINAL FORM ONLY)
<input type="checkbox"/> Abandonment	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Casing Repair
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Change Plans
<input type="checkbox"/> Conversion to injection	<input type="checkbox"/> Conversion to injection
<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Fracture Treat
<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> Other	
<input type="checkbox"/> New Construction	<input type="checkbox"/> New Construction
<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Recompletion	<input type="checkbox"/> Shoot or Acidize
<input type="checkbox"/> Shoot or Acidize	<input type="checkbox"/> Vent of Flare
<input type="checkbox"/> Vent or Fare	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Water Shut-Off	

Approximate Date Work Will Start \_\_\_\_\_ Date of Work Completion \_\_\_\_\_

Report results or Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.  
\*Must be accompanied by a cement verification report.

**13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS** (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

MEDALLION EXPLORATION IS REQUESTING A DRILLING EXTENSION . WE HAVE FARMED OUT THE DEEP RIGHTS TO CMS AND ARE WAITING FOR THEM TO DRILL THE WELL.

**COPY SENT TO OPERATOR**  
 Date: 6-26-02  
 Initials: CRD

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 06-25-02  
By: [Signature]

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

Name & Signature: RaSchelle Richens [Signature] Title: Permitting Date: 06/20/02 03/15/99

State Use Only!

See Instructions on Reverse Side

**RECEIVED**

JUN 24 2002

DIVISION OF  
OIL, GAS AND MINING



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Vernal Field Office  
170 South 500 East  
Vernal, Utah 84078-2799  
<http://www.blm.gov/utah/vernal>

Phone: (435) 781-4400  
Fax: (435) 781-4410

IN REPLY REFER TO:  
3160  
UT08300

December 10, 2002

Rachell Richens  
Medallion Exploration  
6975 Union Park Ctr, Suite 310  
Midvale, UT 84047

Re: Notification of Expiration  
Well No. Antelope Creek #1  
Lot 1, Sec. 24, T6S, R4W  
Lease No. U-77315

Dear Ms. Richens:

The Application for Permit to Drill the above-referenced well was approved on October 16, 2001. Since that date, no known activity has transpired at the approved location. Applications for Permit to Drill are effective for a period of one year. In view of the foregoing, this office is notifying you the approval of the referenced application has expired. If you intend to drill at this location at a future date, a new Application for Permit to Drill must be submitted.

This office requires a letter confirming that no surface disturbance has been made for this drill site. Any surface disturbance associated with the approved location of this well is to be rehabilitated. A schedule for this rehabilitation must be submitted to this office. Your cooperation in this matter is appreciated.

Sincerely,

Leslie Walker  
Legal Instruments Examiner

cc: UDOGM  
US Forest Service

RECEIVED

DIV. OF OIL, GAS & MINING



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

1594 West North Temple, Suite 1210  
PO Box 145801  
Salt Lake City, Utah 84114-5801  
(801) 538-5340 telephone  
(801) 359-3940 fax  
(801) 538-7223 TTY  
www.nr.utah.gov

Michael O. Leavitt  
Governor  
Robert L. Morgan  
Executive Director  
Lowell P. Braxton  
Division Director

July 16, 2003

RaSchelle Richens  
Medallion Exploration  
6975 Union Park Center, Ste 310  
Midvale, UT 84047

Re: APD Rescinded – Antelope Creek 1, Sec. 24, T. 6S, R. 4W Duchesne, Utah  
API No. 43-013-10173

Dear Ms. Richens:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on May 29, 2001. On June 25, 2002, the Division granted a one-year APD extension. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective July 16, 2003.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

Diana Mason  
Engineering Technician

cc: Well File  
Bureau of Land Management, Vernal



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Vernal Field Office

170 South 500 East

Vernal, Utah 84078-2799

<http://www.blm.gov/utah/vernal>

Phone: (435) 781-4400

Fax: (435) 781-4410

IN REPLY REFER TO:

3160

UT08300

January 5, 2004

RaSchelle Richens  
Medallion Exploration  
6975 Union Park Center, Suite 310  
Midvale, Utah 84047

Re: Wells: Antelope Creek #1,  
Left Fork Antelope #1  
Sections 23 & 24, T6S, R4W  
Duchesne County, Utah  
Lease No. UTU-77315

Dear Ms. Richens:

The Applications for Permit to Drill the above-referenced wells are being returned unapproved. A letter dated January 13, 2002, was sent notifying your company that an updated concurrence was needed from the US Forest Service prior to the BLM continuing to process these permits.

In accordance with Onshore Oil & Gas Order No. 1, Section III.B.2, the referenced permits are being returned. The Onshore Order states:

"If the deficiencies are not corrected and/or the additional required information is not submitted within 45 days of the date of any oral or written notice [if no prior oral notice], the application shall be returned to the proponent."

The APDs may be resubmitted to this office upon successful receipt of concurrence from the USFS.

If you have any questions concerning APD processing, please contact me at (435) 781-4497.

Sincerely,

Leslie Walker  
Legal Instruments Examiner

cc: UDOGM  
US Forest Service

RECEIVED

JAN 14 2004

DIV. OF OIL, GAS & MINING